

SEQUENCE LISTING PART OF THE DESCRIPTION

pONY8.1Z MLVHyb (SEQ ID NO 10)

AGATCTTGAATAATAAAATGTGTGTTTGTCCGAAATACGCGTTTTGAGATTTCTGTCGCCGACTAAATTCATGTCGCGCG 5 ATAGTGGTGTTTATCGCCGATAGAGATGGCGATATTGGAAAAATTGATATTTGAAAATATGGCATATTGAAAATGTCGC CGATGTGAGTTTCTGTGTAACTGATATCGCCATTTTTCCAAAAGTGATTTTTGGGCATACGCGATATCTGGCGATAGCGC TTATATCGTTTACGGGGGATGGCGATAGACGACTTTGGTGACTTGGGCGATTCTGTGTGTCGCAATATCGCAGTTTCGA TATAGGTGACAGACGATATGAGGCTATATCGCCGATAGAGGCGACATCAAGCTGGCACATGGCCAATGCATATCGATC TATACATTGAATCAATATTGGCCATTAGCCATATTATTCATTGGTTATATAGCATAAATCAATATTGGCCATT 10 GCATACGTTGTATCCATATCGTAATATGTACATTTATATTGGCTCATGTCCAACATTACCGCCATGTTGACATTGATTATT GACTAGTTATTAATAGTAATCAATTACGGGGTCATTAGTTCATAGCCCATATATGGAGTTCCGCGTTACATAACTTACGG TAAATGGCCCGCCTGGCTGACCGCCCAACGACCCCCGCCCATTGACGTCAATAATGACGTATGTTCCCATAGTAACGCC AATAGGGACTTTCCATTGACGTCAATGGGTGGAGTATTTACGGTAAACTGCCCACTTGGCAGTACATCAAGTGTATCAT ATGCCAAGTCCGCCCCTATTGACGTCAATGACGGTAAATGGCCCGCCTGGCATTATGCCCAGTACATGACCTTACGGG 15 ACTTTCCTACTTGGCAGTACATCTACGTATTAGTCATCGCTATTACCATGGTGATGCGGTTTTGGCAGTACACCAATGGG TGGGAGGTCTATATAAGCAGAGCTCGTTTAGTGAACCGGGCACTCAGATTCTGCGGTCTGAGTCCCTTCTCTGCTGGGCT GAAAAGGCCTTTGTAATAAATATAATTCTCTACTCAGTCCCTGTCTCTAGTTTGTCTGTTCGAGATCCTACAGTTGGCGC 20 CCGAACAGGGACCTGAGAGGGGGCGCAGACCCTACCTGTTGAACCTGGCTGATCGTAGGATCCCCGGGACAGCAGAGGA GAACTTACAGAAGTCTTCTGGAGGTGTTCCTGGCCAGAACACAGGAGGACAGGTAAGATTGGGAGACCCTTTGACATT GGAGCAAGGCGCTCAAGAAGTTAGAGAAGGTGACGGTACAAGGGTCTCAGAAATTAACTACTGGTAACTGTAATTGGG CGCTAAGTCTAGTAGACTTATTTCATGATACCAACTTTGTAAAAGAAAAGGACTGGCAGCTGAGGGATGTCATTCCATT 25 AAAGATGGGCCTCCAGATTAATAATGTAGTAGATGGAAAGGCATCATTCCAGCTCCTAAGAGCGAAATATGAAAAGAA GACTGCTAATAAAAAGCAGTCTGAGCCCTCTGAAGAATATCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAGTGGG GAGGCACGATGGCCGCTTTGGTCGAGGCGGATCCGGCCATTAGCCATATTATTCATTGGTTATATAGCATAAATCAATA TTGGCTATTGGCCATTGCATACGTTGTATCCATATCATAATATGTACATTTATATTGGCTCATGTCCAACATTACCGCCAT GTTGACATTGATTATTGACTAGTTATTAATAGTAATCAATTACGGGGTCATTAGTTCATAGCCCATATATGGAGTTCCGC 30 GTTACATAACTTACGGTAAATGGCCCGCCTGGCTGACCGCCCAACGACCCCCGCCCATTGACGTCAATAATGACGTATG TTCCCATAGTAACGCCAATAGGGACTTTCCATTGACGTCAATGGGTGGAGTATTTACGGTAAACTGCCCACTTGGCAGT ACATCAAGTGTATCATATGCCAAGTACGCCCCCTATTGACGTCAATGACGGTAAATGGCCCGCCTGGCATTATGCCCAG TACATGACCTTATGGGACTTTCCTACTTGGCAGTACATCTACGTATTAGTCATCGCTATTACCATGGTGATGCGGTTTTG GCAGTACATCAATGGGCGTGGATAGCGGTTTGACTCACGGGGATTTCCAAGTCTCCACCCCATTGACGTCAATGGGAGT 35 TTGTTTTGGCACCAAAATCAACGGGACTTTCCAAAATGTCGTAACAACTCCGCCCCATTGACGCAAATGGGCGGTAGGC ATGTACGGTGGGAGGTCTATATAAGCAGAGCTCGTTTAGTGAACCGTCAGATCGCCTGGAGACGCCATCCACGCTGTTT TGACCTCCATAGAAGACACCGGGACCGATCCAGCCTCCGCGGCCCCAAGCTTCAGCTGCTCGAGGATCTGCGGATCCGG GGAATTCCCCAGTCTCAGGATCCACCATGGGGGATCCCGTCGTTTTACAACGTCGTGACTGGGAAAACCCTGGCGTTAC CCAACTTAATCGCCTTGCAGCACATCCCCCTTTCGCCAGCTGGCGTAATAGCGAAGAGGCCCGCACCGATCGCCCTTCC 40 GAGTGCGATCTTCCTGAGGCCGATACTGTCGTCGTCCCTCAAACTGGCAGATGCACGGTTACGATGCGCCCATCTACA CCAACGTAACCTATCCCATTACGGTCAATCCGCCGTTTGTTCCCACGGAGAATCCGACGGGTTGTTACTCGCTCACATTT AATGTTGATGAAAGCTGGCTACAGGAAGGCCAGACGCGAATTATTTTTGATGGCGTTAACTCGGCGTTTCATCTGTGGT GCAACGGGCGCTGGGTCGGTTACGGCCAGGACAGTCGTTTGCCGTCTGAATTTGACCTGAGCGCATTTTTACGCGCCCGG 45 AGAAAACCGCCTCGCGGTGATGGTGCTGCGTTGGAGTGACGGCAGTTATCTGGAAGATCAGGATATGTGGCGGATGAG CGGCATTTTCCGTGACGTCTCGTTGCTGCATAAACCGACTACACAAATCAGCGATTTCCATGTTGCCACTCGCTTTAATG TTTATGGCAGGGTGAAACGCAGGTCGCCAGCGGCACCGCGCCTTTCGGCGGTGAAATTATCGATGAGCGTGGTTAT

GCCGATCGCGTCACACTACGTCTGAACGTCGAAAACCCGAAACTGTGGAGCGCCGAAATCCCGAATCTCTATCGTGCGG TGGTTGAACTGCACACCGCCGACGGCACGCTGATTGAAGCAGAAGCCTGCGATGTCCGCTTTCCGCGAGGTGCGGATTGA A AATGGTCTGCTGCTGAACGGCAAGCCGTTGCTGATTCGAGGCGTTAACCGTCACGAGCATCATCCTCTGCATGGTCAGGTCATGGATGAGCAGACGATGGTGCAGGATATCCTGCTGATGAAGCAGAACAACTTTAACGCCGTGCGCTGTTCGC ATTATCCGAACCATCCGCTGTGGTACACGCTGTGCGACCGCTACGGCCTGTATGTGGTGGATGAAGCCAATATTGAAAC 5 CCACGGCATGGTGCCAATGAATCGTCTGACCGATGATCCGCGCTGGCTACCGGCGATGAGCGAACGCGTAACGCGAAT ACCGATATTATTTGCCCGATGTACGCGCGCGTGGATGAAGACCAGCCCTTCCCGGCTGTGCCGAAATGGTCCATCAAAA AATGGCTTTCGCTACCTGGAGAGACGCGCCCGCTGATCCTTTGCGAATACGCCCACGCGATGGGTAACAGTCTTGGCGG 10 TTTCGCTAAATACTGGCAGGCGTTTCGTCAGTATCCCCGTTTACAGGGCGGCTTCGTCTGGGACTGGGTGGATCAGTCGC TGATTAAATATGATGAAAACGGCAACCCGTGGTCGGCTTACGGCGGTGATTTTGGCGATACGCCGAACGATCGCCAGTT CTGTATGAACGGTCTGGTCTTTGCCGACCGCACGCCGCATCCAGCGCTGACGGAAGCAAAACACCAGCAGCAGTTTTTC CAGTTCCGTTTATCCGGGCAAACCATCGAAGTGACCAGCGAATACCTGTTCCGTCATAGCGATAACGAGCTCCTGCACT GGATGGTGGCGCTGGATGGTAAGCCGCTGGCAAGCGGTGAAGTGCCTCTGGATGTCGCTCCACAAGGTAAACAGTTGA 15 TTGAACTGCCTGAACTACCGCAGCCGGAGAGCGCCGGGCAACTCTGGCTCACAGTACGCGTAGTGCAACCGAACGCGA CCGCATGGTCAGAAGCCGGGCACATCAGCGCCTGGCAGCAGTGGCGTCTGGCGGAAAACCTCAGTGTGACGCTCCCCG CCGCGTCCCACGCCATCCCGCATCTGACCACCAGCGAAATGGATTTTTGCATCGAGCTGGGTAATAAGCGTTGGCAATT TAACCGCCAGTCAGGCTTTCTTTCACAGATGTGGATTGGCGATAAAAAACAACTGCTGACGCCGCTGCGCGATCAGTTC ACCCGTGCACCGCTGGATAACGACATTGGCGTAAGTGAAGCGACCCGCATTGACCCCTAACGCCTGGGTCGAACGCTGG 20 AAGGCGGCGGCCATTACCAGGCCGAAGCAGCGTTGTTGCAGTGCACGGCAGATACACTTGCTGATGCGGTGCTGATT GCAGGTAGCAGAGCGGGTAAACTGGCTCGGATTAGGGCCGCAAGAAACTATCCCGACCGCCTTACTGCCGCCTGTTTT GACCGCTGGGATCTGCCATTGTCAGACATGTATACCCCGTACGTCTTCCCGAGCGAAAACGGTCTGCGCTGCGGGACGC 25 GCGAATTGAATTATGGCCCACACCAGTGGCGCGGCGACTTCCAGTTCAACATCAGCCGCTACAGTCAACAGCAACTGAT GGAAACCAGCCATCGCCATCTGCTGCACGCGGAAGAAGGCACATGGCTGAATATCGACGGTTTCCATATGGGGATTGG TGGCGACGACTCCTGGAGCCCGTCAGTATCGGCGGAATTCCAGCTGAGCGCCGGTCGCTACCATTACCAGTTGGTCTGG TGTCAAAAATAATAACCGGGCAGGGGGGATCCGCAGATCCGGCTGTGGAATGTGTGTCAGTTAGGGTGTGGAAAG TCCCCAGGCTCCCCAGCAGCAGAAGTATGCAAAGCATGCCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGAA 30 TTGGAAGAGCTTTAAATCCTGGCACATCTCATGTATCAATGCCTCAGTATGTTTAGAAAAACAAGGGGGGAACTGTGGG CATGGAAAAATACATAACTGAGAATAGAGAAGTTCAGATCAAGGTCAGGAACAGATGGAACAGCTGAATATGGGCCA AACAGGATATCTGTGGTAAGCAGTTCCTGCCCCGGCTCAGGGCCAAGAACAGATGGAACAGCTGAATATGGGCCAAAC AGGATATCTGTGGTAAGCAGTTCCTGCCCCGGCTCAGGGCCAAGAACAGATGGTCCCCAGATGCGGTCCAGCCCTCAGC 35 AGTTTCTAGAGAACCATCAGATGTTTCCAGGGTGCCCCAAGGACCTGAAATGACCCTGTGCCTTATTTGAACTAACCAA TCAGTTCGCTTCTCGCTCCGCGCGCTTCTGCTCCCCGAGCTCAATAAAAGAGCCCACAACCCCTCACTCGGGGGG CTGTCTCTAGTTTGTCTGTTCGAGATCCTACAGAGCTCATGCCTTGGCGTAATCATGGTCATAGCTGTTTCCTGTGTGAA 40 CTAACTCACATTAATTGCGTTGCGCTCACTGCCCGCTTTCCAGTCGGGAAACCTGTCGTGCCAGCTGCATTAATGAATCG CGGCTGCGGCGAGCGGTATCAGCTCACTCAAAGGCGGTAATACGGTTATCCACAGAATCAGGGGATAACGCAGGAAAG AACATGTGAGCAAAAGGCCAGCAAAAGGCCAGGAACCGTAAAAAGGCCGCGTTGCTGGCGTTTTTCCATAGGCTCCGC CCCCCTGACGAGCATCACAAAAATCGACGCTCAAGTCAGAGGTGGCGAAACCCGACAGGACTATAAAGATACCAGGCG 45 TTTCCCCCTGGAAGCTCCCTCGTGCGCTCTCCTGTTCCGACCCTGCCGCTTACCGGATACCTGTCCGCCTTTCTCCCTTCG GGAAGCGTGGCGCTTTCTCATAGCTCACGCTGTAGGTATCTCAGTTCGGTGTAGGTCGTTCGCTCCAAGCTGGGCTGTGT GCACGAACCCCCGTTCAGCCCGACCGCTGCGCCTTATCCGGTAACTATCGTCTTGAGTCCAACCCGGTAAGACACGAC TTATCGCCACTGGCAGCACCACTGGTAACAGGATTAGCAGAGCGAGGTATGTAGGCGGTGCTACAGAGTTCTTGAAGT

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CTGGCCAGAACACAGGAGGACAGGTAAGATTGGGAGACCCTTTGACATTGGAGCAAGGCG CTCAAGAAGTTAGAGAAGGTGACGGTACAAGGGTCTCAGAAATTAACTACTGGTAACTGT AATTGGGCGCTAAGTCTAGTAGACTTATTTCATGATACCAACTTTGTAAAAGAAAAGGAC TGGCAGCTGAGGGATGTCATTCCATTGCTGGAAGATGTAACTCAGACGCTGTCAGGACAA GAAAGAGAGGCCTTTGAAAGAACATGGTGGGCAATTTCTGCTGTAAAGATGGGCCTCCAG ATTAATAATGTAGTAGATGGAAAGGCATCATTCCAGCTCCTAAGAGCGAAATATGAAAAG AAGACTGCTAATAAAAAGCAGTCTGAGCCCTCTGAAGAATATCTCTAGAACTAGTGGATC CCCCGGGCTGCAGGAGTGGGGAGGCACGATGGCCGCTTTGGTCGAGGCGGATCCGGCCAT TAGCCATATTATTCATTGGTTATATAGCATAAATCAATATTGGCTATTGGCCATTGCATA CGTTGTATCCATATCATAATATGTACATTTATATTGGCTCATGTCCAACATTACCGCCAT GTTGACATTGATTATTGACTAGTTATTAATAGTAATCAATTACGGGGTCATTAGTTCATA GCCCATATATGGAGTTCCGCGTTACATAACTTACGGTAAATGGCCCGCCTGGCTGACCGC CCAACGACCCCCGCCCATTGACGTCAATAATGACGTATGTTCCCATAGTAACGCCAATAG GGACTTTCCATTGACGTCAATGGGTGGAGTATTTACGGTAAACTGCCCACTTGGCAGTAC ATCAAGTGTATCATATGCCAAGTACGCCCCCTATTGACGTCAATGACGGTAAATGGCCCG CCTGGCATTATGCCCAGTACATGACCTTATGGGACTTTCCTACTTGGCAGTACATCTACG TATTAGTCATCGCTATTACCATGGTGATGCGGTTTTGGCAGTACATCAATGGGCGTGGAT AGCGGTTTGACTCACGGGGATTTCCAAGTCTCCACCCCATTGACGTCAATGGGAGTTTGT TTTGGCACCAAAATCAACGGGACTTTCCAAAATGTCGTAACAACTCCGCCCCATTGACGC AAATGGGCGGTAGGCATGTACGGTGGGAGGTCTATATAAGCAGAGCTCGTTTAGTGAACC GTCAGATCGCCTGGAGACGCCATCCACGCTGTTTTGACCTCCATAGAAGACACCGGGACC GATCCAGCCTCCGCGGCCCCAAGCTTGTTGGGATCCACCGGTCGCCACCATGGTGAGCAA GGGCGAGGAGCTGTTCACCGGGGTGGTGCCCATCCTGGTCGAGCTGGACGGCGACGTAAA CGGCCACAAGTTCAGCGTGTCCGGCGAGGGCGAGGGCGATGCCACCTACGGCAAGCTGAC CCTGAAGTTCATCTGCACCACCGGCAAGCTGCCCGTGCCCTGGCCCACCCTCGTGACCAC CCTGACCTACGGCGTGCAGTGCTTCAGCCGCTACCCCGACCACATGAAGCAGCACGACTT CTTCAAGTCCGCCATGCCCGAAGGCTACGTCCAGGAGCGCACCATCTTCTTCAAGGACGA CGGCAACTACAAGACCCGCGCGAGGTGAAGTTCGAGGGCGACACCCTGGTGAACCGCAT CGAGCTGAAGGGCATCGACTTCAAGGAGGACGGCAACATCCTGGGGCACAAGCTGGAGTA CAACTACAACAGCCACAACGTCTATATCATGGCCGACAAGCAGAAGAACGGCATCAAGGT GAACTTCAAGATCCGCCACAACATCGAGGACGGCAGCGTGCAGCTCGCCGACCACTACCA GCAGAACACCCCCATCGGCGACGGCCCCGTGCTGCTGCCCGACAACCACTACCTGAGCAC CCAGTCCGCCCTGAGCAAAGACCCCAACGAGAAGCGCGATCACATGGTCCTGCTGGAGTT CGTGACCGCCGCGGGATCACTCTCGGCATGGACGAGCTGTACAAGTAAAGCGGCCGCGA CTCTAGAGTCGACCTGCAGGCATGCAAGCTTCAGCTGCTCGAGGGGGGGCCCGGTACCCA GCTTTTGTTCCCTTTAGTGAGGGTTAATTGCGCGGGAAGTATTTATCACTAATCAAGCAC AAGTAATACATGAGAAACTTTTACTACAGCAAGCACAATCCTCCAAAAAATTTTGTTTTT ACAAAATCCCTGGTGAACATGATTGGAAGGGACCTACTAGGGTGCTGTGGAAGGGTGATG GTGCAGTAGTTAATGATGAAGGAAAGGGAATAATTGCTGTACCATTAACCAGGACTA AGTTACTAATAAAACCAAATTGAGTATTGTTGCAGGAAGCAAGACCCAACTACCATTGTC AGCTGTGTTTCCTGACCTCAATATTTGTTATAAGGTTTGATATGAATCCCAGGGGGAATC TCAACCCCTATTACCCAACAGTCAGAAAAATCTAAGTGTGAGGAGAACACAATGTTTCAA CAAGAATGAACCTGAAAGAAGAATCTAAAGAAGAAAAAAAGAAGAAATGACTGGTGGAAAA TAGGTATGTTTCTGTTATGCTTAGCAGGAACTACTGGAGGAATACTTTGGTGGTATGAAG GACTCCCACAGCAACATTATATAGGGTTGGTGGCGATAGGGGGAAGATTAAACGGATCTG GCCAATCAAATGCTATAGAATGCTGGGGTTCCTTCCCGGGGTGTAGACCATTTCAAAATT ACTTCAGTTATGAGACCAATAGAAGCATGCATATGGATAATAATACTGCTACATTATTAG AAGCTTTAACCAATATAACTGCTCTATAAATAACAAAACAGAATTAGAAACATGGAAGTT

AGTAAAGACTTCTGGCATAACTCCTTTACCTATTTCTTCTGAAGCTAACACTGGACTAAT TAGACATAAGAGAGATTTTGGTATAAGTGCAATAGTGGCAGCTATTGTAGCCGCTACTGC TATTGCTGCTAGCGCTACTATGTCTTATGTTGCTCTAACTGAGGTTAACAAAATAATGGA AGTACAAAATCATACTTTTGAGGTAGAAAATAGTACTCTAAATGGTATGGATTTAATAGA ACGACAAATAAAGATATTATATGCTATGATTCTTCAAACACATGCAGATGTTCAACTGTT TGTATTTTGTCATACTGGTCATCCCTGGAATATGTCATGGGGACATTTAAATGAGTCAAC TCATGGAGCCAGGAACAATTTGGCACAATCCATGATAACATTCAATACACCAGATAGTAT AGCTCAATTTGGAAAAGACCTTTGGAGTCATATTGGAAATTGGATTCCTGGATTGGGAGC TAAGATCCTCAGGGCCCTCTGGAAGGTGACCAGTGGTGCAGGGTCCTCCGGCAGTCGTTA CCTGAAGAAAAATTCCATCACAAACATGCATCGCGAGAAGACACCTGGGACCAGGCCCA ACACAACATACACCTAGCAGGCGTGACCGGTGGATCAGGGGACAAATACTACAAGCAGAA GTACTCCAGGAACGACTGGAATGGAGAATCAGAGGGGGTACAACAGGCGGCCAAAGAGCTG GGTGAAGTCAATCGAGGCATTTGGAGAGAGCTATATTTCCGAGAAGACCAAAGGGGAGAT TTCTCAGCCTGGGGGGGCTATCAACGAGCACAAGAACGGCTCTGGGGGGAACAATCCTCA CCAAGGGTCCTTAGACCTGGAGATTCGAAGCGAAGGAGGAAACATTTATGACTGTTGCAT TAAAGCCCAAGAAGGAACTCTCGCTATCCCTTGCTGTGGATTTCCCTTATGGCTATTTTG GGGACTAGTAATTATAGTAGGACGCATAGCAGGCTATGGATTACGTGGACTCGCTGTTAT AATAAGGATTTGTATTAGAGGCTTAAATTTGATATTTGAAATAATCAGAAAAATGCTTGA TTATATTGGAAGAGCTTTAAATCCTGGCACATCTCATGTATCAATGCCTCAGTATGTTTA GAAAAACAAGGGGGGAACTGTGGGGTTTTTATGAGGGGTTTTATAAATGATTATAAGAGT AAAAAGAAAGTTGCTGATGCTCTCATAACCTTGTATAACCCAAAGGACTAGCTCATGTTG CTAGGCAACTAAACCGCAATAACCGCATTTGTGACGCGAGTTCCCCATTGGTGACGCGTT AACTTCCTGTTTTTACAGTATATAAGTGCTTGTATTCTGACAATTGGGCACTCAGATTCT CTCAGTCCCTGTCTCAGTTTGTCTGTTCGAGATCCTACAGAGCTCATGCCTTGGCGTAA TCATGGTCATAGCTGTTTCCTGTGTGAAATTGTTATCCGCTCACAATTCCACACAACATA ATTGCGTTGCGCTCACTGCCCGCTTTCCAGTCGGGAAACCTGTCGTGCCAGTGATGCCCG GGCGGCCGAGGCGCCTACGTGAACCATCACCCAAATCAAGTTTTTTGCGGTCGAGGTGC CGTAAAGCTCTAAATCGGAACCCTAAAGGGAGCCCCCGATTTAGAGCTTGACGGGGAAAG GCAAGTGTAGCGGTCACGCTGCGCGTAACCACCACACCCGCCGCGCTTAATGCGCCGCTA CAGGGCGCGTCCATTCGCCATTCAGGCTGCGCAACTGTTGGGAAGGGCGATCGGTGCGGG CCTCTTCGCTATTACGCCAGCCCGGATCGATCCTTATCGGATTTTACCACATTTGTAGAG GTTTTACTTGCTTTAAAAAACCTCCCACATCTCCCCCTGAACCTGAAACATAAAATGAAT GCAATTGTTGTTAACTTGTTTATTGCAGCTTATAATGGTTACAAATAAAGCAATAGC ATCACAAATTTCACAAATAAAGCATTTTTTTCACTGCATTCTAGTTGTGGTTTGTCCAAA CTCATCAATGTATCTTATCATGTCTGCTCGAAGCATTAACCCTCACTAAAGGGAAGCGGC CGCCCGGGTCGACTTCACAGGTGTTTTGCGGCGTCTTTTGGAGTCTCCGGGCCTCAAGACG CGGGGGCTGCTCTGCCCCCACAGCCTTTCTTGTGCCCTCTGGTAGCCTCCCCATGCG TCTCCCAGCTCTTTAGCGGCTTGTTGCACGCCCCTAATTCTCCATTCCAGCCTTTCTTGG AGGACCTCGGCTTGCAAAATCTGGCCCCTAATCCACCTATCCCTTCTGGAGGGTGTGTGC TGGGTGGGACCGGGGCCGAGGTGTCTTCTGGCGATGCAGGTCTGGCTAGGAATCTTCTCC TCGGGCAGGGACTGTCTCAGCACGCGGCACCACTGGTCCCCCTCCAGGGGGCCTTGTGGG TCGATCTTCCACCAGTCGTTGCGGCGCTTCTCCTCTTTGCTCTCTTCCTTGAGGTTCATC

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CGGC

pONY8.3G FB29 + (SEQ ID No 46)

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GGGACTAGTAATTATAGTAGGACGCATAGCAGGCTATGGATTACGTGGACTCGCTGTTAT AATAAGGATTTGTATTAGAGGCTTAAATTTGATATTTGAAATAATCAGAAAAATGCTTGA TTATATTGGAAGAGCTTTAAATCCTGGCACATCTCATGTATCAATGCCTCAGTATGTTTA GAAAAACAAGGGGGGAACTGTGGGGTTTTTATGAGGGGTTTTATAAATGATTATAAGAGT AAAAAGAAAGTTGCTGATGCTCTCATAACCTTGTATAACCCAAAGGACTAGCTCATGTTG CTAGGCAACTAAACCGCAATAACCGCATTTGTGACGCGAGTTCCCCATTGGTGACGCGTT AACTTCCTGTTTTTACAGTATATAAGTGCTTGTATTCTGACAATTGGGCACTCAGATTCT CTCAGTCCCTGTCTCAGTTTGTCTGTTCGAGATCCTACAGAGCTCATGCCTTGGCGTAA TCATGGTCATAGCTGTTTCCTGTGTGAAATTGTTATCCGCTCACAATTCCACACAACATA ATTGCGTTGCGCTCACTGCCCGCTTTCCAGTCGGGAAACCTGTCGTGCCAGAGTAGGCCG CCTCGGCCAGATCTCAAATTGCTTAGCCTGATAGCCGCAGTAACGCCATTTTGCAAGGCA TGGAAAAATACCAAACCAAGAATAGAGAAGTTCAGATCAAGGGCGGGTACACGAAAACAG CTAACGTTGGGCCAAACAGGATATCTGCGGTGAGCAGTTTCGGCCCCGGCCCGGGCCAA GAACAGATGGTCACCGCGGTTCGGCCCCGGGCCCGGGGCCAAGAACAGATGGTCCCCAGAT ATGGCCCAACCCTCAGCAGTTTCTTAAGACCCATCAGATGTTTCCAGGCTCCCCCAAGGA CCTGAAATGACCCTGTGCCTTATTTGAATTAACCAATCAGCCTGCTTCTCGCTTCTGTTC GCGCGCTTCTGCTTCCCGAGCTCTATAAAAGAGCTCACAACCCCTCACTCGGCGCGCCAG TCCTCCGATAGACTGAGTCGCCCGGGTACCCGTGTATCCAATAAATCCTCTTGCTGTTGC ATCCGACTCGTGGTCTCGCTGTTCCTTGGGAGGGTCTCCTCAGAGTGATTGACTACCCGT CTCGGGGGTCTTTCATTTGGGGGCTCGTCCGGGATCTGGAGACCCCTGCCCAGGGACCAC CGACCCACCACCGGGAGGCTAGCCTCGAGAATTCGCCACCATGGCTGAGAGCAAGGAGGC CAGGGATCAAGAGATGAACCTCAAGGAAGAGAGCAAAGAGGAGAAGCGCCGCAACGACTG GTGGAAGATCGACCCACAAGGCCCCCTGGAGGGGGACCAGTGGTGCCGCGTGCTGAGACA GTCCCTGCCCGAGGAGAAGATTCCTAGCCAGACCTGCATCGCCAGAAGACACCTCGGCCC CGGTCCCACCCAGCACACCCCTCCAGAAGGGATAGGTGGATTAGGGGCCAGATTTTGCA AGCCGAGGTCCTCCAAGAAAGGCTGGAATGGAGAATTAGGGGCGTGCAACAAGCCGCTAA AGAGCTGGGAGAGGTGAATCGCGGCATCTGGAGGGAGCTCTACTTCCGCGAGGACCAGAG GGGCGATTTCTCCGCATGGGGAGGCTACCAGAGGGCACAAGAAAGGCTGTGGGGCGAGCA GAGCAGCCCCGCGTCTTGAGGCCCGGAGACTCCAAAAGACGCCGCAAACACCTGTGAAG TCGACCCGGGCGGCCGCTTCCCTTTAGTGAGGGTTAATGCTTCGAGCAGACATGATAAGA GAAATTTGTGATGCTATTGCTTTATTTGTAACCATTATAAGCTGCAATAAACAAGTTAAC AACAACAATTGCATTCATTTTATGTTTCAGGTTCAGGGGGAGATGTGGGAGGTTTTTTAA ATAGCGAAGAGGCCCGCACCGATCGCCCTTCCCAACAGTTGCGCAGCCTGAATGGCGAAT GGACGCCCTGTAGCGCGCATTAAGCGCGGGGGGTGTGGTGGTTACGCGCAGCGTGAC CACGTTCGCCGGCTTTCCCCGTCAAGCTCTAAATCGGGGGCTCCCTTTAGGGTTCCGATT TAGAGCTTTACGGCACCTCGACCGCAAAAAACTTGATTTGGGTGATGGTTCACGTAGGCC GCCTCGGCCGCCCGGGCATCACTGCATTAATGAATCGGCCAACGCGCGGGGAGAGGCGGT TTGCGTATTGGGCGCTCTTCCGCTTCCTCGCTCACTGACTCGCTGCGCTCGGTCGTTCGG CTGCGGCGAGCGGTATCAGCTCACTCAAAGGCGGTAATACGGTTATCCACAGAATCAGGG GATAACGCAGGAAAGAACATGTATAACTTCGTATAATGTATGCTATACGAAGTTATACAT GTGAGCAAAAGGCCAGCAAAAGGCCAGGAACCGTAAAAAGGCCGCGTTGCTGGCGTTTTT CCATAGGCTCCGCCCCCTGACGAGCATCACAAAAATCGACGCTCAAGTCAGAGGTGGCG AAACCCGACAGGACTATAAAGATACCAGGCGTTTCCCCCTGGAAGCTCCCTCGTGCGCTC TCCTGTTCCGACCCTGCCGCTTACCGGATACCTGTCCGCCTTTCTCCCTTCGGGAAGCGT

GGCGCTTTCTCATAGCTCACGCTGTAGGTATCTCAGTTCGGTGTAGGTCGTTCGCTCCAA **GCTGGGCTGTGTGCACGAACCCCCGTTCAGCCCGACCGCTGCGCCTTATCCGGTAACTA** TCGTCTTGAGTCCAACCCGGTAAGACACGACTTATCGCCACTGGCAGCAGCCACTGGTAA CAGGATTAGCAGAGCGAGGTATGTAGGCGGTGCTACAGAGTTCTTGAAGTGGTGGCCTAA CTACGGCTACACTAGAAGGACAGTATTTGGTATCTGCGCTCTGCTGAAGCCAGTTACCTT CGGAAAAAGAGTTGGTAGCTCTTGATCCGGCAAACAAACCACCGCTGGTAGCGGTGGTTT TTTTGTTTGCAAGCAGCAGATTACGCGCAGAAAAAAAGGATCTCAAGAAGATCCTTTGAT CTTTTCTACGGGGTCTGACGCTCAGTGGAACGAAAACTCACGTTAAGGGATTTTGGTCAT GAGATTATCAAAAAGGATCTTCACCTAGATCCTTTTAAATTAAAAATGAAGTTTTAAATC AATCTAAAGTATATATGAGTAAACTTGGTCTGACAGTTACCAATGCTTAATCAGTGAGGC ACCTATCTCAGCGATCTGTCTATTTCGTTCATCCATAGTTGCCTGACTCCCCGTCGTGTA GATAACTACGATACGGGAGGGCTTACCATCTGGCCCCAGTGCTGCAATGATACCGCGAGA CAGAAGTGGTCCTGCAACTTTATCCGCCTCCATCCAGTCTATTAATTGTTGCCGGGAAGC TAGAGTAAGTAGTTCGCCAGTTAATAGTTTGCGCAACGTTGTTGCCATTGCTACAGGCAT CGTGGTGTCACGCTCGTCGTTTGGTATGGCTTCATTCAGCTCCGGTTCCCAACGATCAAG GCGAGTTACATGATCCCCCATGTTGTGCAAAAAAGCGGTTAGCTCCTTCGGTCCTCCGAT CGTTGTCAGAAGTAAGTTGGCCGCAGTGTTATCACTCATGGTTATGGCAGCACTGCATAA TTCTCTTACTGTCATGCCATCCGTAAGATGCTTTTCTGTGACTGGTGAGTACTCAACCAA GTCATTCTGAGAATAGTGTATGCGGCGACCGAGTTGCTCTTGCCCGGCGTCAATACGGGA TAATACCGCGCCACATAGCAGAACTTTAAAAGTGCTCATCATTGGAAAACGTTCTTCGGG GCGAAAACTCTCAAGGATCTTACCGCTGTTGAGATCCAGTTCGATGTAACCCACTCGTGC ACCCAACTGATCTTCAGCATCTTTTACTTTCACCAGCGTTTCTGGGTGAGCAAAAACAGG AAGGCAAAATGCCGCAAAAAAGGGAATAAGGGCGACACGGAAATGTTGAATACTCATACT CTTCCTTTTTCAATATTATTGAAGCATTTATCAGGGTTATTGTCTCATGAGCGGATACAT ATTTGAATGTATTTAGAAAAATAAACAAATAGGGGTTCCGCGCACATTTCCCCGAAAAGT GCCACCTAAATTGTAAGCGTTAATATTTTGTTAAAATTCGCGTTAAATTTTTGTTAAATC AGCTCATTTTTTAACCAATAGGCCGAAATCGGCAAAATCCCTTATAAATCAAAAGAATAG ACCGAGATAGGGTTGAGTGTTGCCAGTTTGGAACAAGAGTCCACTATTAAAGAACGTG GACTCCAACGTCAAAGGGCGAAAAACCGTCTATCAGGGCGATGGCCCACTACGTGATAAC TTCGTATAATGTATGCTATACGAAGTTATCACTACGTGAACCATCACCCTAATCAAGTTT TTTGGGGTCGAGGTGCCGTAAAGCACTAAATCGGAACCCTAAAGGGAGCCCCCGATTTAG AGCTTGACGGGGAAAGCCAACCTGGCTTATCGAAATTAATACGACTCACTATAGGGAGAC CGGC

pONY8.3GPGK - (SEQ ID No 47)

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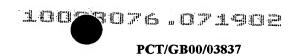
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1008**9**076.071908

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GCAATTGTTGTTAACTTGTTTATTGCAGCTTATAATGGTTACAAATAAAGCAATAGC ATCACAAATTTCACAAATAAAGCATTTTTTTCACTGCATTCTAGTTGTGGTTTGTCCAAA CTCATCAATGTATCTTATCATGTCTGCTCGAAGCATTAACCCTCACTAAAGGGAAGCGGC CGCCCGGGTCGACTTCACAGGTGTTTTGCGGCGTCTTTTTGGAGTCTCCGGGCCTCAAGACG CGGGGGCTGCTCTGCTCGCCCCACAGCCTTTCTTGTGCCCTCTGGTAGCCTCCCCATGCG TCTCCCAGCTCTTTAGCGGCTTGTTGCACGCCCCTAATTCTCCATTCCAGCCTTTCTTGG AGGACCTCGGCTTGCAAAATCTGGCCCCTAATCCACCTATCCCTTCTGGAGGGTGTGTGC TGGGTGGGACCGGGGCCGAGGTGTCTTCTGGCGATGCAGGTCTGGCTAGGAATCTTCTCC TCGGGCAGGGACTGTCTCAGCACGCGGCACCACTGGTCCCCCTCCAGGGGGCCTTGTGGG TCGATCTTCCACCAGTCGTTGCGGCGCTTCTCCTCTTTGCTCTTTCCTTGAGGTTCATC TCTTGATCCCTGGCCTCCTTGCTCTCAGCCATGGTGGCGAATTCTCGAGGCTAGCCTGGG GAGAGAGGTCGGTGATTCGGTCAACGAGGGAGCCGACTGCCGACGTGCGCTCCGGAGGCT TGCAGAATGCGGAACACCGCGCGGGGCAGGAACAGGGCCCACACTACCGCCCCACACCCCG CCTCCCGCACCGCCCCTTCCCGGCCGCTGCTCTCGGCGCGCCCCGCTGAGCAGCCGCTAT TGGCCACAGCCCATCGCGGTCGGCGCGCTGCCATTGCTCCCTGGCGCTGTCCGTCTGCGA GGGTACTAGTGAGACGTGCGGCTTCCGTTTGTCACGTCCGGCACGCCGCGAACCGCAAGG AACCTTCCCGACTTAGGGGGGGGCGGAGCAGGAAGCGTCGCCGGGGGGCCCACAAGGGTAGCGG CGAAGATCCGGGTGACGCTGCGAACGGACGTGAAGAATGTGCGAGACCCAGGGTCGGCGC CGCTGCGTTTCCCGGAACCACGCCCAGAGCAGCCGCGTCCCTGCGCAAACCCAGGGCTGC CTTGGAAAAGGCGCAACCCCAACCCCAGATCTGGCCGAGGCGGCCTACTCTGCATTAATG AATCGGCCAACGCGCGGGAGAGGCGGTTTGCGTATTGGGCGCTCTTCCGCTTCCTCGCT GGTAATACGGTTATCCACAGAATCAGGGGATAACGCAGGAAAGAACATGTATAACTTCGT ATAATGTATGCTATACGAAGTTATACATGTGAGCAAAAGGCCAGCAAAAGGCCAGGAACC GTAAAAAGGCCGCGTTGCTGGCGTTTTTCCATAGGCTCCGCCCCCTGACGAGCATCACA AAAATCGACGCTCAAGTCAGAGGTGGCGAAACCCGACAGGACTATAAAGATACCAGGCGT TTCCCCCTGGAAGCTCCCTCGTGCGCTCTCCTGTTCCGACCCTGCCGCTTACCGGATACC TGTCCGCCTTTCTCCCTTCGGGAAGCGTGGCGCTTTCTCATAGCTCACGCTGTAGGTATC TCAGTTCGGTGTAGGTCGTTCGCTCCAAGCTGGGCTGTGTGCACGAACCCCCCGTTCAGC CCGACCGCTGCGCCTTATCCGGTAACTATCGTCTTGAGTCCAACCCGGTAAGACACGACT TATCGCCACTGGCAGCAGCCACTGGTAACAGGATTAGCAGAGCGAGGTATGTAGGCGGTG CTACAGAGTTCTTGAAGTGGTGGCCTAACTACGGCTACACTAGAAGGACAGTATTTGGTA TCTGCGCTCTGCTGAAGCCAGTTACCTTCGGAAAAAGAGTTGGTAGCTCTTGATCCGGCA AACAAACCACCGCTGGTAGCGGTGGTTTTTTTGTTTGCAAGCAGCAGATTACGCGCAGAA AAAAAGGATCTCAAGAAGATCCTTTGATCTTTTCTACGGGGTCTGACGCTCAGTGGAACG AAAACTCACGTTAAGGGATTTTGGTCATGAGATTATCAAAAAGGATCTTCACCTAGATCC TTTTAAATTAAAAATGAAGTTTTAAATCAATCTAAAGTATATATGAGTAAACTTGGTCTG ACAGTTACCAATGCTTAATCAGTGAGGCACCTATCTCAGCGATCTGTCTATTTCGTTCAT CCATAGTTGCCTGACTCCCCGTCGTGTAGATAACTACGATACGGGAGGGCTTACCATCTG GCCCCAGTGCTGCAATGATACCGCGAGACCCACGCTCACCGGCTCCAGATTTATCAGCAA TAAACCAGCCAGCCGGAAGGGCCGAGCGCAGAAGTGGTCCTGCAACTTTATCCGCCTCCA TCCAGTCTATTAATTGTTGCCGGGAAGCTAGAGTAAGTAGTTCGCCAGTTAATAGTTTGC GCAACGTTGTTGCCATTGCTACAGGCATCGTGGTGTCACGCTCGTCGTTTGGTATGGCTT CATTCAGCTCCGGTTCCCAACGATCAAGGCGAGTTACATGATCCCCCATGTTGTGCAAAA CACTCATGGTTATGGCAGCACTGCATAATTCTCTTACTGTCATGCCATCCGTAAGATGCT TTTCTGTGACTGGTGAGTACTCAACCAAGTCATTCTGAGAATAGTGTATGCGGCGACCGA GTTGCTCTTGCCCGGCGTCAATACGGGATAATACCGCGCCACATAGCAGAACTTTAAAAG



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SEQ ID No 51

pONY3.2IREShyg

AGATCTCCCGATCCCCTATGGTCGACTCTCAGTACAATCTGCTCTGATGCCGCATAGTTA AGCCAGTATCTGCTCCCTGCTTGTGTGTTGGAGGTCGCTGAGTAGTGCGCGAGCAAAATT TAAGCTACAACAAGGCAAGGCTTGACCGACAATTGCATGAAGAATCTGCTTAGGGTTAGG CGTTTTGCGCTGCTTCGCGATGTACGGGCCAGATATACGCGTTGACATTGATTATTGACT AGTTATTAATAGTAATCAATTACGGGGTCATTAGTTCATAGCCCATATATGGAGTTCCGC ACGTCAATAATGACGTATGTTCCCATAGTAACGCCAATAGGGACTTTCCATTGACGTCAA TGGGTGGACTATTTACGGTAAACTGCCCACTTGGCAGTACATCAAGTGTATCATATGCCA 10 AGTACGCCCCCTATTGACGTCAATGACGGTAAATGGCCCGCCTGGCATTATGCCCAGTAC ATGACCTTATGGGACTTTCCTACTTGGCAGTACATCTACGTATTAGTCATCGCTATTACC ATGGTGATGCGGTTTTGGCAGTACACCAATGGGCGTGGATAGCGGTTTGACTCACGGGGA GACTTTCCAAAATGTCGTAACAACTGCGATCGCCCGCCCCGTTGACGCAAATGGGCGGTA 15 GGCGTGTACGGTGGGAGGTCTATATAAGCAGAGCTCGTTTAGTGAACCGTCAGATCACTA CAACAGTCTCGAACTTAAGCTGCAGTGACTCTCTTAAGGTAGCCTTGCAGAAGTTGGTCG TGAGGCACTGGGCAGGTAAGTATCAAGGTTACAAGACAGGTTTAAGGAGACCAATAGAAA CTGGGCTTGTCGAGACAGAGACTCTTGCGTTTCTGATAGGCACCTATTGGTCTTACT 20 GACATCCACTTTGCCTTTCTCCACAGGTGTCCACTCCCAGTTCAATTACAGCTCTTAA GGCTAGAGTACTTAATACGACTCACTATAGGCTAGCCTCGAGGTCGACGGTATCGCCCGA ACAGGGACCTGAGAGGGGCGCAGACCCTACCTGTTGAACCTGGCTGATCGTAGGATCCCC GGGACAGCAGAGGAGCTTACAGAAGTCTTCTGGAGGTGTTCCTGGCCAGAACACAGGA GGACAGGTAAGATGGGAGACCCTTTGACATGGAGCAAGGCGCTCAAGAAGTTAGAGAAGG 25 TGACGGTACAAGGGTCTCAGAAATTAACTACTGGTAACTGTAATTGGGCGCTAAGTCTAG TAGACTTATTTCATGATACCAACTTTGTAAAAGAAAAGGACTGGCAGCTGAGGGATGTCA GAACATGGTGGGCAATTTCTGCTGTAAAGATGGGCCTCCAGATTAATAATGTAGTAGATG GAAAGGCATCATTCCAGCTCCTAAGAGCGAAATATGAAAAGAAGACTGCTAATAAAAAGC 30 AGTCTGAGCCCTCTGAAGAATATCCAATCATGATAGATGGGGCTGGAAACAGAAATTTTA GACCTCTAACACCTAGAGGATATACTACTTGGGTGAATACCATACAGACAAATGGTCTAT TAAATGAAGCTAGTCAAAACTTATTTGGGATATTATCAGTAGACTGTACTTCTGAAGAAA TGAATGCATTTTTGGATGTGGTACCTGGCCAGGCAGGACAAAAGCAGATATTACTTGATG CAATTGATAAGATAGCAGATGATTGGGATAATAGACATCCATTACCGAATGCTCCACTGG 35 TGGCACCACCACAAGGGCCTATTCCCATGACAGCAAGGTTTATTAGAGGTTTAGGAGTAC CTAGAGAAAGACAGATGGAGCCTGCTTTTGATCAGTTTAGGCAGACATATAGACAATGGA TAATAGAAGCCATGTCAGAAGGCATCAAAGTGATGATTGGAAAACCTAAAGCTCAAAATA AAAGTGAGGGACATCCACAAGAGATTTCAAAATTCTTGACTGATACACTGACTATTCAGA 40 ACGCAAATGAGGAATGTAGAAATGCTATGAGACATTTAAGACCAGAGGATACATTAGAAG AGAAAATGTATGCTTGCAGAGACATTGGAACTACAAAACAAAAGATGATGTTATTGGCAA AAGCACTTCAGACTGGTCTTGCGGGCCCATTTAAAGGTGGAGCCTTGAAAGGAGGGCCAC TAAAGGCAGCACAAACATGTTATAACTGTGGGAAGCCAGGACATTTATCTAGTCAATGTA GAGCACCTAAAGTCTGTTTTAAATGTAAACAGCCTGGACATTTCTCAAAGCAATGCAGAA 45 TACAACAGAAGAGTCAGCACAACAAATCTGTTGTACAAGAGACTCCTCAGACTCAAAATC TGTACCCAGATCTGAGCGAAATAAAAAAGGAATACAATGTCAAGGAGAAGGATCAAGTAG AGGATCTCAACCTGGACAGTTTGTGGGAGTAACATATAATCTAGAGAAAAGGCCTACTAC AATAGTATTAATTAATGATACTCCCTTAAATGTACTGTTAGACACAGGAGCAGATACTTC 50 AGTGTTGACTACTGCACATTATAATAGGTTAAAATATAGAGGGAGAAAATATCAAGGGAC GGGAATAATAGGAGTGGGAGGAAATGTGGAAACATTTTCTACGCCTGTGACTATAAAGAA AAAGGGTAGACACATTAAGACAAGAATGCTAGTGGCAGATATTCCAGTGACTATTTTGGG ACGAGATATTCTTCAGGACTTAGGTGCAAAATTGGTTTTGGCACAGCTCTCCAAGGAAAT AAAATTTAGAAAAATAGAGTTAAAAGAGGGCACAATGGGGCCAAAAATTCCTCAATGGCC 55 ACTCACTAAGGAGAAACTAGAAGGGGCCAAAGAGATAGTCCAAAGACTATTGTCAGAGGG AAAAATATCAGAAGCTAGTGACAATAATCCTTATAATTCACCCATATTTGTAATAAAAAA GAGGTCTGGCAAATGGAGGTTATTACAAGATCTGAGAGAATTAAACAAAACAGTACAAGT GACTGTATTAGATATTGGAGATGCATATTTCACTATACCCTTAGATCCAGAGTTTAGACC 60 ATATACAGCTTTCACTATTCCCTCCATTAATCATCAAGAACCAGATAAAAGATATGTGTG

AATTTTACAACCTTTTAGGGAAAGATATCCTGAAGTACAATTGTATCAATATATGGATGA

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TTTGTTCATGGGAAGTAATGGTTCTAAAAAACAACACAAAGAGTTAATCATAGAATTAAG GGCGATCTTACTGGAAAAGGGTTTTGAGACACCAGATGATAAATTACAAGAAGTGCCACC TTATAGCTGGCTAGGTTATCAACTTTGTCCTGAAAATTGGAAAGTACAAAAAATGCAATT AGACATGGTAAAGAATCCAACCCTTAATGATGTGCAAAAATTAATGGGGAATATAACATG GATGAGCTCAGGGATCCCAGGGTTGACAGTAAAACACATTGCAGCTACTACTAAGGGATG 5 TTTAGAGTTGAATCAAAAAGTAATTTGGACGGAAGAGGCACAAAAAGAGTTAGAAGAAAA TAATGAGAAGATTAAAAATGCTCAAGGGTTACAATATTATAATCCAGAAGAAGAAATGTT ATGTGAGGTTGAAATTACAAAAAATTATGAGGCAACTTATGTTATAAAACAATCACAAGG AATCCTATGGGCAGGTAAAAAGATTATGAAGGCTAATAAGGGATGGTCAACAGTAAAAAA TTTAATGTTATTGTTGCAACATGTGGCAACAGAAAGTATTACTAGAGTAGGAAAATGTCC 10 AACGTTTAAGGTACCATTTACCAAAGAGCAAGTAATGTGGGAAATGCAAAAAGGATGGTA TTATTCTTGGCTCCCAGAAATAGTATATACACATCAAGTAGTTCATGATGATTGGAGAAT GAAATTGGTAGAAGAACCTACATCAGGAATAACAATATACACTGATGGGGGAAAACAAAA TGGAGAAGGAATAGCAGCTTATGTGACCAGTAATGGGAGAACTAAACAGAAAAGGTTAGG ACCTGTCACTCAAGTTGCTGAAAGAATGGCAATACAAATGGCATTAGAGGATACCAG 15 AGATAAACAAGTAAATATAGTAACTGATAGTTATTATTGTTGGAAAAATATTACAGAAGG ATTAGGTTTAGAAGGACCACAAAGTCCTTGGTGGCCTATAATACAAAATATACGAGAAAA AGAGATAGTTTATTTTGCTTGGGTACCTGGTCACAAAGGGATATATGGTAATCAATTGGC AGATGAAGCCGCAAAAATAAAAGAAGAAATCATGCTAGCATACCAAGGCACACAAATTAA AGAGAAAAGAGATGAAGATGCAGGGTTTGACTTATGTGTTCCTTATGACATCATGATACC 20 TGTATCTGACACAAAAATCATACCCACAGATGTAAAAATTCAAGTTCCTCCTAATAGCTT AATTGATGAAGGATATACAGGAGAAATACAAGTGATATGTACTAATATTGGAAAAAGTAA TTCCAGACAGCCTTGGGATGAAAATAAAATATCTCAGAGAGGGGATAAAGGATTTGGAAG 25 TACAGGAGTATTCTGGGTAGAAAATATTCAGGAAGCACAAGATGAACATGAGAATTGGCA TACATCACCAAAGATATTGGCAAGAAATTATAAGATACCATTGACTGTAGCAAAACAGAT AACTCAAGAATGTCCTCATTGCACTAAGCAAGGATCAGGACCTGCAGGTTGTGTCATGAG ATCTCCTAATCATTGGCAGGCAGATTGCACACATTTGGACAATAAGATAATATTGACTTT TGTAGAGTCAAATTCAGGATACATACATGCTACATTATTGTCAAAAGAAAATGCATTATG 30 TACTTCATTGGCTATTTTAGAATGGGCAAGATTGTTTTCACCAAAGTCCTTACACACAGA TAACGGCACTAATTTTGTGGCAGAACCAGTTGTAAATTTGTTGAAGTTCCTAAAGATAGC ACATACCACAGGAATACCATATCATCCAGAAAGTCAGGGTATTGTAGAAAGGGCAAATAG GACCTTGAAAGAGAAGATTCAAAGTCATAGAGACAACACTCAAACACTGGAGGCAGCTTT 35 GGAAGTATTTATCACTAATCAAGCACAAGTAATACATGAGAAACTTTTACTACAGCAAGC ACAATCCTCCAAAAAATTTTGTTTTTACAAAATCCCTGGTGAACATGATTGGAAGGGACC TACTAGGGTGCTGTGGAAGGGTGATGGTGCAGTAGTTAATGATGAAGGAAAGGGAAT AATTGCTGTACCATTAACCAGGACTAAGTTACTAATAAAACCAAATTGAGTATTGTTGCA GGAAGCAAGACCCAACTACCATTGTCAGCTGTGTTTCCTGACCTCAATATTTGTTATAAG 40 GTTTGATATGAATCCCAGGGGGAATCTCAACCCCTATTACCCAACAGTCAGAAAAATCTA AGTGTGAGGAGAACACAATGTTTCAACCTTATTGTTATAATAATGACAGTAAGAACAGCA TGGCAGAATCGAAGGAAGCAAGAGACCAAGAAATGAACCTGAAAGAAGAATCTAAAGAAG AAAAAGAAGAATGACTGGTGGAAAATAGGTATGTTTCTGTTATGCTTAGCAGGAACTA CTGGAGGAATACTTTGGTGGTATGAAGGACTCCCACAGCAACATTATATAGGGTTGGTGG 45 CGATAGGGGGAAGATTAAACGGATCTGGCCAATCAAATGCTATAGAATGCTGGGGTTCCT CAAAACAGAATTAGAAACATGGAAGTTAGTAAAGACTTCTGGCATAACTCCTTTACCTAT TTCTTCTGAAGCTAACACTGGACTAATTAGACATAAGAGAGATTTTGGTATAAGTGCAAT 50 AGTGGCAGCTATTGTAGCCGCTACTGCTATTGCTGCTAGCGCTACTATGTCTTATGTTGC TCTAACTGAGGTTAACAAAATAATGGAAGTACAAAATCATACTTTTGAGGTAGAAAATAG TACTCTAAATGGTATGGATTTAATAGAACGACAAATAAAGATATTATATGCTATGATTCT TCAAACACATGCAGATGTTCAACTGTTAAAGGAAAGACAACAGGTAGAGGAGACATTTAA TTTAATTGGATGTATAGAAAGAACACATGTATTTTGTCATACTGGTCATCCCTGGAATAT 55 GTCATGGGGACATTTAAATGAGTCAACACAATGGGATGACTGGGTAAGCAAAATGGAAGA TTTAAATCAAGAGATACTAACTACACTTCATGGAGCCAGGAACAATTTGGCACAATCCAT GATAACATTCAATACACCAGATAGTATAGCTCAATTTGGAAAAGACCTTTGGAGTCATAT TGGAAATTGGATTCCTGGATTGGGAGCTTCCATTATAAAATATATAGTGATGTTTTTGCT TATTTATTTGTTACTAACCTCTTCGCCTAAGATCCTCAGGGCCCTCTGGAAGGTGACCAG 60 TGGTGCAGGGTCCTCCGGCAGTCGTTACCTGAAGAAAAAATTCCATCACAAACATGCATC GCGAGAAGACACCTGGGACCAGGCCCAACACACACACACCTAGCAGGCGTGACCGGTGG ATCAGGGGACAAATACTACAAGCAGAAGTACTCCAGGAACGACTGGAATGGAGAATCAGA GGAGTACAACAGGCGGCCAAAGAGCTGGGTGAAGTCAATCGAGGCATTTGGAGAGAGCTA TATTTCCGAGAAGACCAAAGGGGAGATTTCTCAGCCTGGGGCGGCTATCAACGAGCACAA 65 GAACGGCTCTGGGGGGAACAATCCTCACCAAGGGTCCTTAGACCTGGAGATTCGAAGCGA AGGAGGAAACATTTATGACTGTTGCATTAAAGCCCAAGAAGGAACTCTCGCTATCCCTTG CTGTGGATTTCCCTTATGGCTATTTTGGGGGTCGACCCGGGCGGCCGCACTAGAGGAATT CGCCCCTCTCCCCCCCCCCCTAACGTTACTGGCCGAAGCCGCTTGGAATAAGGCCGG TGTGTGTTTGTCTATATGTGATTTTCCACCATATTGCCGTCTTTTGGCAATGTGAGGGCC 70 CGGAAACCTGGCCCTGTCTTCTTGACGAGCATTCCTAGGGGTCTTTCCCCTCTCGCCAAA GGAATGCAAGGTCTGTTGAATGTCGTGAAGGAAGCAGTTCCTCTGGAAGCTTCTTGAAGA CAAACAACGTCTGTAGCGACCCTTTGCAGGCAGCGGAACCCCCCACCTGGCGACAGGTGC CTCTGCGGCCAAAAGCCACGTGTATAAGATACACCTGCAAAGGCGGCACAACCCCAGTGC

CACGTTGTGAGTTGGATAGTTGTGGAAAGAGTCAAATGGCTCTCCTCAAGCGTAGTCAAC AAGGGGCTGAAGGATGCCCAGAAGGTACCCCATTGTATGGGAATCTGATCTGGGGCCTCG GTGCACATGCTTTACATGTGTTTAGTCGAGGTTAAAAAAGCTCTAGGCCCCCCGAACCAC GGGGACGTGGTTTTCCTTTGAAAAACACGATGATAAGCTTGCCACAACCCCCGTACCAAAG ATGGATAGATCCGGAAAGCCTGAACTCACCGCGACGTCTGTCGAGAAGTTTCTGATCGAA AAGTTCGACAGCGTCTCCGACCTGATGCAGCTCTCGGAGGGCGAAGAATCTCGTGCTTTC AGCTTCGATGTAGGAGGGCGTGGATATGTCCTGCGGGTAAATAGCTGCGCCGATGGTTTC TACAAAGATCGTTATGTTTATCGGCACTTTGCATCGGCCGCGCTCCCGATTCCGGAAGTG CTTGACATTGGGGAATTCAGCGAGAGCCTGACCTATTGCATCTCCCGCCGTGCACAGGGT GTCACGTTGCAAGACCTGCCTGAAACCGAACTGCCCGCTGTTCTGCAGCCGGTCGCGGAG 10 GCCATGGATGCGATCGCGGCCGATCTTAGCCAGACGAGCGGGTTCGGCCCATTCGGA CCGCAAGGAATCGGTCAATACACTACATGGCGTGATTTCATATGCGCGATTGCTGATCCC CTCGATGAGCTGATGCTTTGGGCCGAGGACTGCCCCGAAGTCCGGCACCTCGTGCACGCG GATTTCGGCTCCAACAATGTCCTGACGGACAATGGCCGCATAACAGCGGTCATTGACTGG 15 AGCGAGGCGATGTTCGGGGATTCCCAATACGAGGTCGCCAACATCTTCTTCTGGAGGCCG TGGTTGGCTTGTATGGAGCAGCAGACGCGCTACTTCGAGCGGAGGCATCCGGAGCTTGCA GGATCGCCGCGGCTCCGGGCGTATATGCTCCGCATTGGTCTTGACCAACTCTATCAGAGC TTGGTTGACGGCAATTTCGATGATGCAGCTTGGGCGCAGGGTCGATGCGACGCAATCGTC CGATCCGGAGCCGGGACTGTCGGGCGTACACAAATCGCCCGCAGAAGCGCGGCCGTCTGG 20 ACCGATGGCTGTGTAGAAGTACTCGCCGATAGTGGAAACCGACGCCCCAGCACTCGTCCG AGGGCAAAGGAATAGAGTAGATGCCGACCGAACAAGAGCTGATTTCGAGAACGCCTCAGC CAGCAACTCGCGCGAGCCTAGCAAGGCAAATGCGAGAGAACGGCCTTACGCTTGGTGGCA CAGTTCTCGTCCACAGTTCGCTAAGCTCGCTCGGCTGGGTCGCGGGAGGGCCGGTCGCAG TGATTCAGGCCCTTCTGGATTGTGTTGGTCCCCAGGGCACGATTGTCATGCCCACGCACT 25 GCCCTCCCCGTGCCTTCCTTGACCCTGGAAGGTGCCACTCCCACTGTCCTTTCCTAAT AAAATGAGGAAATTGCATCGCATTGTCTGAGTAGGTGTCATTCTATTCTGGGGGGTGGGG TGGGGCAGGACAGCAAGGGGGAGGATTGGGAAGACAATAGCAGGCATGCTGGGGATGCGG 30 TGGGCTCTATGGCTTCTGAGGCGGAAAGAACCAGCTGGGGCTCGAGTGCATTCTAGTTGT AGCTTGGCGTAATCATGGTCATAGCTGTTTCCTGTGTGAAATTGTTATCCGCTCACAATT TAACTCACATTAATTGCGTTGCGCTCACTGCCCGCTTTCCAGTCGGGAAACCTGTCGTGC 35 CAGCTGCATTAATGAATCGGCCAACGCGCGGGGAGAGGCGGTTTGCGTATTGGGCGCTCT TCCGCTTCCTCGCTCACTGACTCGCTGCGCTCGGTCGTTCGGCTGCGGCGAGCGGTATCA GCTCACTCAAAGGCGGTAATACGGTTATCCACAGAATCAGGGGGATAACGCAGGAAAGAAC ATGTGAGCAAAAGGCCAGCAAAAGGCCAGGAACCGTAAAAAGGCCGCGTTGCTGGCGTTT TTCCATAGGCTCCGCCCCCTGACGAGCATCACAAAAATCGACGCTCAAGTCAGAGGTGG 40 CGAAACCCGACAGGACTATAAAGATACCAGGCGTTTCCCCCTGGAAGCTCCCTCGTGCGC TCTCCTGTTCCGACCCTGCCGCTTACCGGATACCTGTCCGCCTTTCTCCCTTCGGGAAGC GTGGCGCTTTCTCAATGCTCACGCTGTAGGTATCTCAGTTCGGTGTAGGTCGTTCGCTCC AAGCTGGGCTGTGTGCACGAACCCCCCGTTCAGCCCGACCGCTGCGCCTTATCCGGTAAC TATCGTCTTGAGTCCAACCCGGTAAGACACGACTTATCGCCACTGGCAGCAGCCACTGGT 45 AACAGGATTAGCAGAGCGAGGTATGTAGGCGGTGCTACAGAGTTCTTGAAGTGGTGGCCT AACTACGGCTACACTAGAAGGACAGTATTTGGTATCTGCGCTCTGCTGAAGCCAGTTACC TTTTTTGTTTGCAAGCAGCAGATTACGCGCAGAAAAAAAGGATCTCAAGAAGATCCTTTG ATCTTTTCTACGGGGTCTGACGCTCAGTGGAACGAAAACTCACGTTAAGGGATTTTGGTC 50 ATGAGATTATCAAAAAGGATCTTCACCTAGATCCTTTTAAATTAAAAATGAAGTTTTAAA TCAATCTAAAGTATATATGAGTAAACTTGGTCTGACAGTTACCAATGCTTAATCAGTGAG GCACCTATCTCAGCGATCTGTCTATTTCGTTCATCCATAGTTGCCTGACTCCCCGTCGTG TAGATAACTACGATACGGGAGGGCTTACCATCTGGCCCCAGTGCTGCAATGATACCGCGA 55 CGCAGAAGTGGTCCTGCAACTTTATCCGCCTCCATCCAGTCTATTAATTGTTGCCGGGAA GCTAGAGTAAGTAGTTCGCCAGTTAATAGTTTGCGCAACGTTGTTGCCATTGCTACAGGC ATCGTGGTGTCACGCTCGTTTGGTATGGCTTCATTCAGCTCCGGTTCCCAACGATCA AGGCGAGTTACATGATCCCCCATGTTGTGCAAAAAAGCGGTTAGCTCCTTCGGTCCTCCG ATCGTTGTCAGAAGTAAGTTGGCCGCAGTGTTATCACTCATGGTTATGGCAGCACTGCAT 60 AATTCTCTTACTGTCATGCCATCCGTAAGATGCTTTTCTGTGACTGGTGAGTACTCAACC AAGTCATTCTGAGAATAGTGTATGCGGCGACCGAGTTGCTCTTGCCCGGCGTCAATACGG GATAATACCGCGCCACATAGCAGAACTTTAAAAGTGCTCATCATTGGAAAACGTTCTTCG GGGCGAAAACTCTCAAGGATCTTACCGCTGTTGAGATCCAGTTCGATGTAACCCACTCGT GCACCCAACTGATCTTCAGCATCTTTTACTTTCACCAGCGTTTCTGGGTGAGCAAAAACA 65 GGAAGGCAAAATGCCGCAAAAAAGGGAATAAGGGCGACACGGAAATGTTGAATACTCATA CTCTTCCTTTTTCAATATTATTGAAGCATTTATCAGGGTTATTGTCTCATGAGCGGATAC ATATTTGAATGTATTTAGAAAAATAAACAAATAGGGGTTCCGCGCACATTTCCCCGAAAA GTGCCACCTGACGTCGACGGATCGGG 70

pONY8ZA CMVHyb (SEQ ID N 52)

AGATCTTGAATAATAAAATGTGTGTTTGTCCGAAATACGCGTTTTGAGATTTCTGTCGCC

GACTAAATTCATGTCGCGCGATAGTGGTGTTTATCGCCGATAGAGATGGCGATATTGGAA AAATTGATATTTGAAAATATGGCATATTGAAAATGTCGCCGATGTGAGTTTCTGTGTAAC TGATATCGCCATTTTTCCAAAAGTGATTTTTGGGCATACGCGATATCTGGCGATAGCGCT TATATCGTTTACGGGGGATGGCGATAGACGACTTTGGTGACTTGGGCGATTCTGTGTGTC GCAAATATCGCAGTTTCGATATAGGTGACAGACGATATGAGGCTATATCGCCGATAGAGG 5 CGACATCAAGCTGGCACATGGCCAATGCATATCGATCTATACATTGAATCAATATTGGCC ATTAGCCATATTATTCATTGGTTATATAGCATAAATCAATATTGGCTATTGGCCATTGCA TACGTTGTATCCATATCGTAATATGTACATTTATATTGGCTCATGTCCAACATTACCGCC ATGTTGACATTGATTATTGACTAGTTATTAATAGTAATCAATTACGGGGTCATTAGTTCA TAGCCCATATATGGAGTTCCGCGTTACATAACTTACGGTAAATGGCCCGCCTGGCTGACC 10 GCCCAACGACCCCGCCCATTGACGTCAATAATGACGTATGTTCCCATAGTAACGCCAAT AGGGACTTTCCATTGACGTCAATGGGTGGAGTATTTACGGTAAACTGCCCACTTGGCAGT ACATCAAGTGTATCATATGCCAAGTCCGCCCCCTATTGACGTCAATGACGGTAAATGGCC CGCCTGGCATTATGCCCAGTACATGACCTTACGGGACTTTCCTACTTGGCAGTACATCTA CGTATTAGTCATCGCTATTACCATGGTGATGCGGTTTTGGCAGTACACCAATGGGCGTGG 15 ATAGCGGTTTGACTCACGGGGATTTCCAAGTCTCCACCCCATTGACGTCAATGGGAGTTT CCGTTGACGCAAATGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATAAGCAGAGCTCGT TTAGTGAACCGGGCACTCAGATTCTGCGGTCTGAGTCCCTTCTCTGCTGGGCTGAAAAGG CCTTTGTAATAAATATAATTCTCTACTCAGTCCCTGTCTCTAGTTTGTCTGTTCGAGATC 20 CTACAGTTGGCGCCCGAACAGGGACCTGAGAGGGGGCGCAGACCCTACCTGTTGAACCTGG CTGATCGTAGGATCCCCGGGACAGCAGAGGAGAACTTACAGAAGTCTTCTGGAGGTGTTC CTGGCCAGAACACAGGAGGACAGGTAAGATTGGGAGACCCTTTGACATTGGAGCAAGGCG CTCAAGAAGTTAGAGAAGGTGACGGTACAAGGGTCTCAGAAATTAACTACTGGTAACTGT AATTGGGCGCTAAGTCTAGTAGACTTATTTCATTGATACCAACTTTGTAAAAGAAAAGGA 25 CTGGCAGCTGAGGGATTGTCATTCCATTGCTGGAAGATTGTAACTCAGACGCTGTCAGGA CAAGAAAGAGAGGCCTTTGAAAGAACATTGGTGGGCAATTTCTGCTGTAAAGATTGGGCC TCCAGATTAATAATTGTAGTAGATTGGAAAGGCATCATTCCAGCTCCTAAGAGCGAAATA TTGAAAAGAAGACTGCTAATAAAAAGCAGTCTGAGCCCTCTGAAGAATATCTCTAGAACT AGTGGATCCCCCGGGCTGCAGGAGTGGGGAGGCACGATGGCCGCTTTGGTCGAGGCGGAT 30 CCGGCCATTAGCCATATTATTCATTGGTTATATAGCATAAATCAATATTGGCTATTGGCC ATTGCATACGTTGTATCCATATCATAATATGTACATTTATATTGGCTCATGTCCAACATT ACCGCCATGTTGACATTGATTATTGACTAGTTATTAATAGTAATCAATTACGGGGTCATT AGTTCATAGCCCATATATGGAGTTCCGCGTTACATAACTTACGGTAAATGGCCCGCCTGG CTGACCGCCCAACGACCCCCGCCCATTGACGTCAATAATGACGTATGTTCCCATAGTAAC 35 GCCAATAGGGACTTTCCATTGACGTCAATGGGTGGAGTATTTACGGTAAACTGCCCACTT GGCAGTACATCAAGTGTATCATATGCCAAGTACGCCCCCTATTGACGTCAATGACGGTAA ATGGCCCGCCTGGCATTATGCCCAGTACATGACCTTATGGGACTTTCCTACTTGGCAGTACATCACGTATTAGTCATCGCTATTACCATGGTGATGCGGTTTTGGCAGTACATCAATGG GCGTGGATAGCGGTTTGACTCACGGGGATTTCCAAGTCTCCACCCCATTGACGTCAATGG 40 GAGTTTGTTTTGGCACCAAAATCAACGGGACTTTCCAAAATGTCGTAACAACTCCGCCCC ATTGACGCAAATGGGCGGTAGGCATGTACGGTGGGAGGTCTATATAAGCAGAGCTCGTTT AGTGAACCGTCAGATCGCCTGGAGACGCCATCCACGCTGTTTTGACCTCCATAGAAGACA CCGGGACCGATCCAGCCTCCGCGGCCCCAAGCTTCAGCTGCTCGAGGATCTGCGGATCCG GGGAATTCCCCAGTCTCAGGATCCACCATGGGGGATCCCGTCGTTTTACAACGTCGTGAC 45 TGGGAAAACCCTGGCGTTACCCAACTTAATCGCCTTGCAGCACATCCCCCTTTCGCCAGC TGGCGTAATAGCGAAGAGGCCCGCACCGATCGCCCTTCCCAACAGTTGCGCAGCCTGAAT TGCGATCTTCCTGAGGCCGATACTGTCGTCGTCCCCTCAAACTGGCAGATGCACGGTTACGATGCGCCCATCTACACCAACGTAACCTATCCCATTACGGTCAATCCGCCGTTTGTTCCC 50 ACGGAGAATCCGACGGGTTGTTACTCGCTCACATTTAATGTTGATGAAAGCTGGCTACAG GAAGGCCAGACGCGAATTATTTTTGATGGCGTTAACTCGGCGTTTCATCTGTGGTGCAAC GGGCGCTGGGTCGGTTACGGCCAGGACAGTCGTTTGCCGTCTGAATTTGACCTGAGCGCA TTTTTACGCGCCGGAGAAAACCGCCTCGCGGTGATGGTGCTGCGTTGGAGTGACGGCAGT TATCTGGAAGATCAGGATATGTGGCGGATGAGCGGCATTTTCCGTGACGTCTCGTTGCTG 55 CATAAACCGACTACACAAATCAGCGATTTCCATGTTGCCACTCGCTTTAATGATGATTTC GTAACAGTTTCTTTATGGCAGGGTGAAACGCAGGTCGCCAGCGGCACCGCGCCTTTCGGC GGTGAAATTATCGATGAGCGTGGTGGTTATGCCGATCGCGTCACACTACGTCTGAACGTC GAAAACCCGAAACTGTGGAGCGCCGAAATCCCGAATCTCTATCGTGCGGTGGTTGAACTG 60 CACACCGCCGACGCACGCTGATTGAAGCAGAAGCCTGCGATGTCGGTTTCCGCGAGGTG CGGATTGAAAATGGTCTGCTGCTGCTGAACGGCAAGCCGTTGCTGATTCGAGGCGTTAAC CGTCACGAGCATCATCCTCTGCATGGTCAGGTCATGGATGAGCAGACGATGGTGCAGGAT ATCCTGCTGATGAAGCAGAACAACTTTAACGCCGTGCGCTGTTCGCATTATCCGAACCAT CCGCTGTGGTACACGCTGTGCGACCGCTACGGCCTGTATGTGGTGGATGAAGCCAATATT 65 GAAACCCACGGCATGGTGCCAATGAATCGTCTGACCGATGATCCGCGCTGGCTACCGGCG ATGAGCGAACGCGTAACGCGAATGGTGCAGCGCGATCGTAATCACCCGAGTGTGATCATC TGGTCGCTGGGGAATGAATCAGGCCACGGCGCTAATCACGACGCGCTGTATCGCTGGATC AAATCTGTCGATCCTTCCCGCCCGGTGCAGTATGAAGGCGGCGGAGCCGACACCACGGCC ACCGATATTATTTGCCCGATGTACGCGCGCGTGGATGAAGACCAGCCCTTCCCGGCTGTG 70 CCGAAATGGTCCATCAAAAAATGGCTTTCGCTACCTGGAGAGACGCGCCCGCTGATCCTT TGCGAATACGCCCACGCGATGGGTAACAGTCTTGGCGGTTTCGCTAAATACTGGCAGGCG TTTCGTCAGTATCCCCGTTTACAGGGCGGCTTCGTCTGGGACTGGGTGGATCAGTCGCTG ATTAAATATGATGAAAACGGCAACCCGTGGTCGGCTTACGGCGGTGATTTTGGCGATACG

CCGAACGATCGCCAGTTCTGTATGAACGGTCTGGTCTTTGCCGACCGCACGCCGCATCCA GCGCTGACGGAAGCAAAACACCAGCAGCAGTTTTTCCAGTTCCGTTTATCCGGGCAAACC ATCGAAGTGACCAGCGAATACCTGTTCCGTCATAGCGATAACGAGCTCCTGCACTGGATG GTGGCGCTGGATGGTAAGCCGCTGGCAAGCGGTGAAGTGCCTCTGGATGTCGCTCCACAA GGTAAACAGTTGATTGAACTGCCTGAACTACCGCAGCCGGAGAGCGCCGGGCAACTCTGG CTCACAGTACGCGTAGTGCAACCGAACGCGACCGCATGGTCAGAAGCCGGGCACATCAGC GCCTGGCAGCAGTGGCGTCTGGCGGAAAACCTCAGTGTGACGCTCCCCGCCGCGCGCCAC GCCATCCCGCATCTGACCACCAGCGAAATGGATTTTTGCATCGAGCTGGGTAATAAGCGT CTGCTGACGCCGCTGCGCGATCAGTTCACCCGTGCACCGCTGGATAACGACATTGGCGTA 10 AGTGAAGCGACCGCATTGACCCTAACGCCTGGGTCGAACGCTGGAAGGCGGCGGCCAT TACCAGGCCGAAGCAGCGTTGTTGCAGTGCACGGCAGATACACTTGCTGATGCGGTGCTG ACACCGCATCCGGCGCGGATTGGCCTGAACTGCCAGCTGGCGCAGGTAGCAGAGCGGGTA 15 AACTGGCTCGGATTAGGGCCGCAAGAAAACTATCCCGACCGCCTTACTGCCGCCTGTTTT GACCGCTGGGATCTGCCATTGTCAGACATGTATACCCCGTACGTCTTCCCGAGCGAAAAC GGTCTGCGCTGCGGGACGCGCGAATTGAATTATGGCCCACACCAGTGGCGCGGCGACTTCCAGTTCAACATCAGCCGCTACAGTCAACAGCAACTGATGGAAACCAGCCATCGCCATCTG CTGCACGCGGAAGAAGGCACATGGCTGAATATCGACGGTTTCCATATGGGGATTGGTGGC 20 GACGACTCCTGGAGCCCGTCAGTATCGGCGGAATTCCAGCTGAGCGCCGGTCGCTACCAT TACCAGTTGGTCTGGTGTCAAAAATAATAATCCGGGCAGGGGGGGATCCGCAGATCCGG ATGCAAAGCATGCCTGCAGGAATTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGG GGGGCCCGGTACCCAGCTTTTGTTCCCTTTAGTGAGGGTTAATTGCGCGGGAAGTATTTA 25 AAAAATTTTGTTTTTACAAAATCCCTGGTGAACATGATTGGAAGGGACCTACTAGGGTGC TGTGGAAGGGTGATGGTGCAGTAGTAATGATGAAGGAAAGGGAATAATTGCTGTAC CATTAACCAGGACTAAGTTACTAATAAAACCAAATTGAGTATTGTTGCAGGAAGCAAGAC CCAACTACCATTGTCAGCTGTGTTTCCTGACCTCAATATTTGTTATAAGGTTTGATATGA 30 ATCCCAGGGGGAATCTCAACCCCTATTACCCAACAGTCAGAAAAATCTAAGTGTGAGGAG AACACAATGTTTCAACCTTATTGTTATAATAATGACAGTAAGAACAGCATGGCAGAATCG ATGACTGGTGGAAAATAGGTATGTTTCTGTTATGCTTAGCAGGAACTACTGGAGGAATAC TTTGGTGGTATGAAGGACTCCCACAGCAACATTATATAGGGTTGGTGGCGATAGGGGGAA 35 AGAAACATGGAAGTTAGTAAAGACTTCTGGCATAACTCCTTTACCTATTTCTTCTGAAGC TAACACTGGACTAATTAGACATAAGAGAGATTTTGGTATAAGTGCAATAGTGGCAGCTAT 40 TGTAGCCGCTACTGCTATTGCTGCTAGCGCTACTATGTCTTATGTTGCTCTAACTGAGGT TAACAAAATAATGGAAGTACAAAATCATACTTTTGAGGTAGAAAATAGTACTCTAAATGG TATGGATTTAATAGAACGACAAATAAAGATATTATATGCTATGATTCTTCAAACACATGC TATAGAAAGAACACATGTATTTTGTCATACTGGTCATCCCTGGAATATGTCATGGGGACA 45 TTTAAATGAGTCAACACAATGGGATGACTGGGTAAGCAAAATGGAAGATTTAAATCAAGA GATACTAACTACACTTCATGGAGCCAGGAACAATTTGGCACAATCCATGATAACATTCAA TACACCAGATAGTATAGCTCAATTTGGAAAAGACCTTTGGAGTCATATTGGAAATTGGAT ACTAACCTCTTCGCCTAAGATCCTCAGGGCCCTCTGGAAGGTGACCAGTGGTGCAGGGTC 50 CTCCGGCAGTCGTTACCTGAAGAAAAATTCCATCACAAACATGCATCGCGAGAAGACAC CTGGGACCAGGCCCAACACACATACACCTAGCAGGCGTGACCGGTGGATCAGGGGACAA ATACTACAAGCAGAAGTACTCCAGGAACGACTGGAATGGAGAATCAGAGGAGTACAACAG GCGGCCAAAGAGCTGGGTGAAGTCAATCGAGGCATTTGGAGAGAGCTATATTTCCGAGAA GACCAAAGGGGAGATTTCTCAGCCTGGGGCGGCTATCAACGAGCACAAGAACGGCTCTGG 55 GGGGAACAATCCTCACCAAGGGTCCTTAGACCTGGAGATTCGAAGCGAAGGAGGAAACAT TTATGACTGTTGCATTAAAGCCCAAGAAGGAACTCTCGCTATCCCTTGCTGTGGATTTCC CTTATGGCTATTTTGGGGACTAGTAATTATAGTAGGACGCATAGCAGGCTATGGATTACG TGGACTCGCTGTTATAATAAGGATTTGTATTAGAGGCTTAAATTTGATATTTGAAATAAT CAGAAAAATGCTTGATTATATTGGAAGAGCTTTAAATCCTGGCACATCTCATGTATCAAT 60 GCCTCAGTATGTTTAGAAAAACAAGGGGGGAACTGTGGGGTTTTTATGAGGGGGTTTTTATA AACTGCAGGAGTGGGGAGGCACGATGGCCGCTTTGGTCGAGGCGGATCCGGCCATTAGCC ATATTATTCATTGGTTATATAGCATAAATCAATATTGGCTATTGGCCATTGCATACGTTG TATCCATATCATAATATGTACATTTATATTGGCTCATGTCCAACATTACCGCCATGTTGA CATTGATTATTGACTAGTTATTAATAGTAATCAATTACGGGGTCATTAGTTCATAGCCCA 65 TATATGGAGTTCCGCGTTACATAACTTACGGTAAATGGCCCGCCTGGCTGACCGCCCAAC GACCCCGCCCATTGACGTCAATAATGACGTATGTTCCCATAGTAACGCCAATAGGGACT TTCCATTGACGTCAATGGGTGGAGTATTTACGGTAAACTGCCCACTTGGCAGTACATCAA GTGTATCATATGCCAAGTACGCCCCCTATTGACGTCAATGACGGTAAATGGCCCGCCTGG CATTATGCCCAGTACATGACCTTATGGGACTTTCCTACTTGGCAGTACATCTACGTATTA 70 GTCATCGCTATTACCATGGTGATGCGGTTTTTGGCAGTACATCAATGGGCGTGGATAGCGG CACCAAAATCAACGGGACTTTCCAAAATGTCGTAACAACTCCGCCCCATTGACGCAAATG GGCGGTAGGCATGTACGGTGGGAGGTCTATATAAGCAGAGCTCGTTTAGTGAACCGGGCA

ACTCACTATAGG

24

TAATTCTCTACTCAGTCCCTGTCTCTAGTTTGTCTGTTCGAGATCCTACAGAGCTCATGC CTTGGCGTAATCATGGTCATAGCTGTTTCCTGTGTGAAATTGTTATCCGCTCACAATTCC ACTCACATTAATTGCGTTGCGCTCACTGCCCGCTTTCCAGTCGGGAAACCTGTCGTGCCA GCTGCATTAATGAATCGGCCAACGCGCGGGGAGAGGCGGTTTGCGTATTGGGCGCTCTTC CGCTTCCTCGCTCACTGACTCGCTGCGCTCGGTCGTTCGGCTGCGGCGAGCGGTATCAGC TCACTCAAAGGCGGTAATACGGTTATCCACAGAATCAGGGGATAACGCAGGAAAGAACAT GTGAGCAAAAGGCCAGCAAAAGGCCAGGAACCGTAAAAAGGCCGCGTTGCTGGCGTTTTT CCATAGGCTCCGCCCCCTGACGAGCATCACAAAAATCGACGCTCAAGTCAGAGGTGGCG 10 AAACCCGACAGGACTATAAAGATACCAGGCGTTTCCCCCTGGAAGCTCCCTCGTGCGCTC TCCTGTTCCGACCCTGCCGCTTACCGGATACCTGTCCGCCTTTCTCCCTTCGGGAAGCGT GGCGCTTTCTCATAGCTCACGCTGTAGGTATCTCAGTTCGGTGTAGGTCGTTCGCTCCAA GCTGGGCTGTGCACGAACCCCCCGTTCAGCCCGACCGCTGCGCCTTATCCGGTAACTA TCGTCTTGAGTCCAACCCGGTAAGACACGACTTATCGCCACTGGCAGCAGCCACTGGTAA 15 CAGGATTAGCAGAGCGAGGTATGTAGGCGGTGCTACAGAGTTCTTGAAGTGGTGGCCTAA CTACGGCTACACTAGAAGGACAGTATTTGGTATCTGCGCTCTGCTGAAGCCAGTTACCTT CGGAAAAAGAGTTGGTAGCTCTTGATCCGGCAAACAAACCACCGCTGGTAGCGGTGGTTT TTTTGTTTGCAAGCAGCAGATTACGCGCAGAAAAAAAGGATCTCAAGAAGATCCTTTGAT CTTTTCTACGGGGTCTGACGCTCAGTGGAACGAAAACTCACGTTAAGGGATTTTGGTCAT 20 GAGATTATCAAAAAGGATCTTCACCTAGATCCTTTTAAATTAAAAATGAAGTTTTAAATC AATCTAAAGTATATGAGTAAACTTGGTCTGACAGTTACCAATGCTTAATCAGTGAGGC ACCTATCTCAGCGATCTGTCTATTTCGTTCATCCATAGTTGCCTGACTCCCCGTCGTGTA GATAACTACGATACGGGAGGGCTTACCATCTGGCCCCAGTGCTGCAATGATACCGCGAGA 25 CAGAAGTGGTCCTGCAACTTTATCCGCCTCCATCCAGTCTATTAATTGTTGCCGGGAAGC TAGAGTAAGTAGTTCGCCAGTTAATAGTTTGCGCAACGTTGTTGCCATTGCTACAGGCAT CGTGGTGTCACGCTCGTTTGGTATGGCTTCATTCAGCTCCGGTTCCCAACGATCAAG GCGAGTTACATGATCCCCCATGTTGTGCAAAAAAGCGGTTAGCTCCTTCGGTCCTCCGAT CGTTGTCAGAAGTAAGTTGGCCGCAGTGTTATCACTCATGGTTATGGCAGCACTGCATAA 30 TTCTCTTACTGTCATGCCATCCGTAAGATGCTTTTCTGTGACTGGTGAGTACTCAACCAA GTCATTCTGAGAATAGTGTATGCGGCGACCGAGTTGCTCTTGCCCGGCGTCAATACGGGA TAATACCGCGCCACATAGCAGAACTTTAAAAGTGCTCATCATTGGAAAACGTTCTTCGGG GCGAAAACTCTCAAGGATCTTACCGCTGTTGAGATCCAGTTCGATGTAACCCACTCGTGC ACCCAACTGATCTTCAGCATCTTTTACTTTCACCAGCGTTTCTGGGTGAGCAAAAACAGG 35 AAGGCAAAATGCCGCAAAAAAGGGAATAAGGGCGACACGGAAATGTTGAATACTCATACT CTTCCTTTTTCAATATTATTGAAGCATTTATCAGGGTTATTGTCTCATGAGCGGATACAT ATTTGAATGTATTTAGAAAAATAAACAAATAGGGGTTCCGCGCACATTTCCCCGAAAAGT GCCACCTAAATTGTAAGCGTTAATATTTTGTTAAAATTCGCGTTAAATTTTTGTTAAATC AGCTCATTTTTTAACCAATAGGCCGAAATCGGCAAAATCCCTTATAAATCAAAAGAATAG 40 ACCGAGATAGGGTTGAGTGTTCCAGTTTGGAACAAGAGTCCACTATTAAAGAACGTG GACTCCAACGTCAAAGGGCGAAAAACCGTCTATCAGGGCGATGGCCCACTACGTGAACCA TCACCCTAATCAAGTTTTTTGGGGTCGAGGTGCCGTAAAGCACTAAATCGGAACCCTAAA GGGAGCCCCGATTTAGAGCTTGACGGGGAAAGCCAACCTGGCTTATCGAAATTAATACG

25

PEsynGP (SEQ ID No 53)

TCAATATTGGCCATTAGCCATATTATTCATTGGTTATATAGCATAAATCAATATTGGCTA TTGGCCATTGCATACGTTGTATCTATATCATAATATGTACATTTATATTGGCTCATGTCC AATATGACCGCCATGTTGGCATTGATTATTGACTAGTTATTAATAGTAATCAATTACGGG 10 GTCATTAGTTCATAGCCCATATATGGAGTTCCGCGTTACATAACTTACGGTAAATGGCCC GCCTGGCTGACCGCCCAACGACCCCCGCCCATTGACGTCAATAATGACGTATGTTCCCAT AGTAACGCCAATAGGGACTTTCCATTGACGTCAATGGGTGGAGTATTTACGGTAAACTGC CCACTTGGCAGTACATCAAGTGTATCATATGCCAAGTCCGCCCCCTATTGACGTCAATGA CGGTAAATGGCCCGCCTGGCATTATGCCCAGTACATGACCTTACGGGACTTTCCTACTTG 15 GCAGTACATCTACGTATTAGTCATCGCTATTACCATGGTGATGCGGTTTTTGGCAGTACAC CAATGGGCGTGGATAGCGGTTTGACTCACGGGGATTTCCAAGTCTCCACCCCATTGACGT CAATGGGAGTTTGTTTTGGCACCAAAATCAACGGGACTTTCCAAAATGTCGTAACAACTG CGATCGCCCGCCCCGTTGACGCAAATGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATA AGCAGAGCTCGTTTAGTGAACCGTCAGATCACTAGAAGCTTTATTGCGGTAGTTTATCAC 20 AGTTAAATTGCTAACGCAGTCAGTGCTTCTGACACAACAGTCTCGAACTTAAGCTGCAGT GACTCTCTTAAGGTAGCCTTGCAGAAGTTGGTCGTGAGGCACTGGGCAGGTAAGTATCAA GGTTACAAGACAGGTTTAAGGAGACCAATAGAAACTGGGCTTGTCGAGACAGAGAAGACT CTTGCGTTTCTGATAGGCACCTATTGGTCTTACTGACATCCACTTTGCCTTTCTCCAC AGGTGTCCACTCCCAGTTCAATTACAGCTCTTAAGGCTAGAGTACTTAATACGACTCACT 25 ATAGGCTAGAGAATTCGCCACCATGGGCGATCCCCTCACCTGGTCCAAAGCCCTGAAGAA ACTGGAAAAAGTCACCGTTCAGGGTAGCCAAAAGCTTACCACAGGCAATTGCAACTGGGC ATTGTCCCTGGTGGATCTTTTCCACGACACTAATTTCGTTAAGGAGAAAGATTGGCAACT CAGAGACGTGATCCCCCTCTTGGAGGACGTGACCCAAACATTGTCTGGGCAGGAGCGCGA AGCTTTCGAGCGCACCTGGTGGGCCATCAGCGCAGTCAAAATGGGGCTGCAAATCAACAA 30 CGTGGTTGACGGTAAAGCTAGCTTTCAACTGCTCCGCGCTAAGTACGAGAAGAAAACCGC CAACAAGAAACAATCCGAACCTAGCGAGGAGTACCCAATTATGATCGACGGCGCCGGCAA TAGGAACTTCCGCCCACTGACTCCCAGGGGCTATACCACCTGGGTCAACACCATCCAGAC CTCCGAAGAAATGAATGCTTTTCTCGACGTGGTGCCAGGACAGGCTGGACAGAAACAGAT 35 CCTGCTCGATGCCATTGACAAGATCGCCGACGACTGGGATAATCGCCACCCCCTGCCAAA CGCCCTCTGGTGGCTCCCCACAGGGGCCTATCCCTATGACCGCTAGGTTCATTAGGGG ACTGGGGGTGCCCGCGAACGCCAGATGGAGCCAGCATTTGACCAATTTAGGCAGACCTA CAGACAGTGGATCATCGAAGCCATGAGCGAGGGGATTAAAGTCATGATCGGAAAGCCCAA GGCACAGAACATCAGGCAGGGGGCCAAGGAACCATACCCTGAGTTTGTCGACAGGCTTCT 40 GACTATCCAAAATGCAAATGAAGAGTGCAGAAACGCCATGAGGCACCTCAGACCTGAAGA TACCCTGGAGGAGAAAATGTACGCATGTCGCGACATTGGCACTACCAAGCAAAAGATGAT GCTGCTCGCCAAGGCTCTGCAAACCGGCCTGGCTGGTCCATTCAAAGGAGGAGCACTGAA GGGAGGTCCATTGAAAGCTGCACAAACATGTTATAATTGTGGGAAGCCAGGACATTTATC 45 TAGTCAATGTAGAGCACCTAAAGTCTGTTTTAAATGTAAACAGCCTGGACATTTCTCAAA GCAATGCAGAAGTGTTCCAAAAAACGGGAAGCAAGGGGCCCCAGAAACA AACTTTCCCGATACAACAGAAGAGTCAGCACAACAAATCTGTTGTACAAGAGACTCCTCA GACTCAAAATCTGTACCCAGATCTGAGCGAAATAAAAAAGGAATACAATGTCAAGGAGAA GGATCAAGTAGAGGATCTCAACCTGGACAGTTTGTGGGAGTAACATACAATCTCGAGAAG 50 AGGCCCACTACCATCGTCCTGATCAATGACACCCCTCTTAATGTGCTGCTGGACACCGGA TACCAGGCACAGGCATCATCGGCGTTGGAGGCAACGTCGAAACCTTTTCCACTCCTGTC ACCATCAAAAAGAAGGGGAGACACATTAAAACCAGAATGCTGGTCGCCGACATCCCCGTC ACCATCCTTGGCAGAGACATTCTCCAGGACCTGGGCGCTAAACTCGTGCTGGCACAACTG 55 TCTAAGGAAATCAAGTTCCGCAAGATCGAGCTGAAAGAGGGCACAATGGGTCCAAAAATC CCCCAGTGGCCCCTGACCAAAGAGAAGCTTGAGGGCGCTAAGGAAATCGTGCAGCGCCTG CTTTCTGAGGGCAAGATTAGCGAGGCCAGCGACAATAACCCTTACAACAGCCCCATCTTT

GTGATTAAGAAAAGGAGCGGCAAATGGAGACTCCTGCAGGACCTGAGGGAACTCAACAAG ACCGTCCAGGTCGGAACTGAGATCTCTCGCGGACTGCCTCACCCCGGCGGCCTGATTAAA TGCAAGCACATGACAGTCCTTGACATTGGAGACGCTTATTTTACCATCCCCCTCGATCCT CGCTATGTGTGGAAGTGCCTCCCCAGGGATTTGTGCTTAGCCCCTACATTTACCAGAAG 5 ACACTTCAAGAGATCCTCCAACCTTTCCGCGAAAGATACCCAGAGGTTCAACTCTACCAA TATATGGACGACCTGTTCATGGGGTCCAACGGGTCTAAGAAGCAGCACAAGGAACTCATC ATCGAACTGAGGGCAATCCTCCTGGAGAAAGGCTTCGAGACACCCGACGACAAGCTGCAA GAAGTTCCTCCATATAGCTGGCTGGGCTACCAGCTTTGCCCTGAAAACTGGAAAGTCCAG AAGATGCAGTTGGATATGGTCAAGAACCCAACACTGAACGACGTCCAGAAGCTCATGGGC 10 AATATTACCTGGATGAGCTCCGGAATCCCTGGGCTTACCGTTAAGCACATTGCCGCAACT ACAAAAGGATGCCTGGAGTTGAACCAGAAGGTCATTTGGACAGAGGAAGCTCAGAAGGAA CTGGAGGAGAATAATGAAAAGATTAAGAATGCTCAAGGGCTCCAATACTACAATCCCGAA GAAGAAATGTTGTGCGAGGTCGAAATCACTAAGAACTACGAAGCCACCTATGTCATCAAA CAGTCCCAAGGCATCTTGTGGGCCGGAAAGAAAATCATGAAGGCCAACAAAGGCTGGTCC 15 ACCGTTAAAAATCTGATGCTCCTGCTCCAGCACGTCGCCACCGAGTCTATCACCCGCGTC GGCAAGTGCCCCACCTTCAAAGTTCCCTTCACTAAGGAGCAGGTGATGTGGGAGATGCAA GACTGGAGAATGAAGCTTGTCGAGGAGCCCACTAGCGGAATTACAATCTATACCGACGGC GGAAAGCAAAACGGAGAGGGAATCGCTGCATACGTCACATCTAACGGCCGCACCAAGCAA 20 AAGAGGCTCGGCCCTGTCACTCACCAGGTGGCTGAGAGGATGGCTATCCAGATGGCCCTT GAGGACACTAGAGACAAGCAGGTGAACATTGTGACTGACAGCTACTACTGCTGGAAAAAC ATCACAGAGGGCCTTGGCCTGGAGGGACCCCAGTCTCCCTGGTGGCCTATCATCCAGAAT ATCCGCGAAAAGGAAATTGTCTATTTCGCCTGGGTGCCTGGACACAAAGGAATTTACGGC AACCAACTCGCCGATGAAGCCGCCAAAATTAAAGAGGAAATCATGCTTGCCTACCAGGGC 25 ACACAGATTAAGGAGAAGAGAGACGAGGACGCTGGCTTTGACCTGTGTGCCATACGAC ATCATGATTCCCGTTAGCGACACAAAGATCATTCCAACCGATGTCAAGATCCAGGTGCCA CCCAATTCATTTGGTTGGGTGACCGGAAAGTCCAGCATGGCTAAGCAGGGTCTTCTGATT AACGGGGGAATCATTGATGAAGGATACACCGGCGAAATCCAGGTGATCTGCACAAATATC GGCAAAAGCAATATTAAGCTTATCGAAGGGCAGAAGTTCGCTCAACTCATCATCCTCCAG 30 CACCACAGCAATTCAAGACAACCTTGGGACGAAAACAAGATTAGCCAGAGAGGTGACAAG GGCTTCGGCAGCACAGGTGTGTTCTGGGTGGAGAACATCCAGGAAGCACAGGACGACCAC GCTAAGCAGATCACACAGGAATGCCCCCACTGCACCAAACAAGGTTCTGGCCCCGCCGGC 35 ATCCTGACCTTCGTGGAGAGCAATTCCGGCTACATCCACGCAACACTCCTCTCCAAGGAA AATGCATTGTGCACCTCCCTCGCAATTCTGGAATGGGCCAGGCTGTTCTCTCCAAAATCC CTGCACACCGACAACGGCACCAACTTTGTGGCTGAACCTGTGGTGAATCTGCTGAAGTTC CTGAAAATCGCCCACACCACTGGCATTCCCTATCACCCTGAAAGCCAGGGCATTGTCGAG AGGGCCAACAGAACTCTGAAAGAAAAGATCCAATCTCACAGAGACAATACACAGACATTG 40 GAGGCCGCACTTCAGCTCGCCCTTATCACCTGCAACAAAGGAAGAAAGCATGGGCGGC CAGACCCCTGGGAGGTCTTCATCACTAACCAGGCCCAGGTCATCCATGAAAAGCTGCTC TTGCAGCAGGCCCAGTCCTCCAAAAAGTTCTGCTTTTATAAGATCCCCGGTGAGCACGAC TGGAAAGGTCCTACAAGAGTTTTGTGGAAAGGAGACGGCGCAGTTGTGGTGAACGATGAG GGCAAGGGGATCATCGCTGTGCCCCTGACACGCACCAAGCTTCTCATCAAGCCAAACTGA 45 ACCCGGGGCGGCCGCTTCCCTTTAGTGAGGGTTAATGCTTCGAGCAGACATGATAAGATA CATTGATGAGTTTGGACAAACCACAACTAGAATGCAGTGAAAAAAATGCTTTATTTGTGA AATTTGTGATGCTATTGCTTTATTTGTAACCATTATAAGCTGCAATAAACAAGTTAACAA CAACAATTGCATTCATTTTATGTTTCAGGTTCAGGGGGAGATGTGGGAGGTTTTTTAAAG 50 AGCGAAGAGGCCCGCACCGATCGCCCTTCCCAACAGTTGCGCAGCCTGAATGGCGAATGG ACGCGCCCTGTAGCGCGCATTAAGCGCGCGGGGTGTGGTGGTTACGCGCAGCGTGACCG CTACACTTGCCAGCGCCCTAGCGCCCGCTCCTTTCGCTTTCTTCCCTTTCTCGCCA CGTTCGCCGGCTTTCCCCGTCAAGCTCTAAATCGGGGGCTCCCTTTAGGGTTCCGATTTA GAGCTTTACGGCACCTCGACCGCAAAAAACTTGATTTGGGTGATGGTTCACGTAGTGGGC 55 CATCGCCCTGATAGACGGTTTTTCGCCCTTTGACGTTGGAGTCCACGTTCTTTAATAGTG GACTCTTGTTCCAAACTGGAACAACACTCAACCCTATCTCGGTCTATTCTTTTGATTTAT AAGGGATTTTGCCGATTTCGGCCTATTGGTTAAAAAATGAGCTGATTTAACAAATATTTA ACGCGAATTTTAACAAAATATTAACGTTTACAATTTCGCCTGATGCGGTATTTTCTCCTT ACGCATCTGTGCGGTATTTCACACCGCATACGCGGATCTGCGCAGCACCATGGCCTGAAA 60 TAACCTCTGAAAGAGGAACTTGGTTAGGTACCTTCTGAGGCGGAAAGAACCAGCTGTGGA GCATGCATCTCAATTAGTCAGCAACCAGGTGTGGAAAGTCCCCAGGCTCCCCAGCAGGCA GAAGTATGCAAAGCATGCATCTCAATTAGTCAGCAACCATAGTCCCGCCCCTAACTCCGC CCATCCCGCCCTAACTCCGCCCAGTTCCGCCCATTCTCCGCCCCATGGCTGACTAATTT 65 TTTTTATTTATGCAGAGGCCGAGGCCGCCTCGGCCTCTGAGCTATTCCAGAAGTAGTGAG

GAGGCTTTTTTGGAGGCCTAGGCTTTTGCAAAAAGCTTGATTCTTCTGACACAACAGTCT CGAACTTAAGGCTAGAGCCACCATGATTGAACAAGATGGATTGCACGCAGGTTCTCCGGC CGCTTGGGTGGAGAGGCTATTCGGCTATGACTGGGCACAACAGACAATCGGCTGCTCTGA 5 GGGCGTTCCTTGCGCAGCTGTCGACGTTGTCACTGAAGCGGGAAGGGACTGGCTGCT ATTGGGCGAAGTGCCGGGGCAGGATCTCCTGTCATCTCACCTTGCTCCTGCCGAGAAAGT ATCCATCATGGCTGATGCAATGCGGCGGCTGCATACGCTTGATCCGGCTACCTGCCCATT CGACCACCAAGCGAAACATCGCATCGAGCGAGCACGTACTCGGATGGAAGCCGGTCTTGT CGATCAGGATGATCTGGACGAAGAGCATCAGGGGCTCGCCCAGCCGAACTGTTCGCCAG 10 GCTCAAGGCGCGATGCCCGACGGCGAGGATCTCGTCGTGACCCATGGCGATGCCTGCTT GCCGAATATCATGGTGGAAAATGGCCGCTTTTCTGGATTCATCGACTGTGGCCGGCTGGG TGTGGCGGACCGCTATCAGGACATAGCGTTGGCTACCCGTGATATTGCTGAAGAGCTTGG CGGCGAATGGGCTGACCGCTTCCTCGTGCTTTACGGTATCGCCGCTCCCGATTCGCAGCG CATCGCCTTCTATCGCCTTCTTGACGAGTTCTTCTGAGCGGGACTCTGGGGTTCGAAATG 15 ACCGACCAAGCGACGCCAACCTGCCATCACGATGGCCGCAATAAAATATCTTTATTTTC ATTACATCTGTGTGTTGTTTTTTGTGTGAATCGATAGCGATAAGGATCCGCGTATGGTG ACCCGCTGACGCCCCTGACGGGCTTGTCTGCTCCCGGCATCCGCTTACAGACAAGCTGT GACCGTCTCCGGGAGCTGCATGTGTCAGAGGTTTTCACCGTCATCACCGAAACGCGCGAG 20 ACGAAAGGGCCTCGTGATACGCCTATTTTTATAGGTTAATGTCATGATAATAATGGTTTC TTAGACGTCAGGTGGCACTTTTCGGGGAAATGTGCGCGGAACCCCTATTTGTTTATTTTT CTAAATACATTCAAATATGTATCCGCTCATGAGACAATAACCCTGATAAATGCTTCAATA ATATTGAAAAAGGAAGAGTATGAGTATTCAACATTTCCGTGTCGCCCTTATTCCCTTTTT TGCGGCATTTTGCCTCCTGTTTTTGCTCACCCAGAAACGCTGGTGAAAGTAAAAGATGC 25 TGAAGATCAGTTGGGTGCACGAGTGGGTTACATCGAACTGGATCTCAACAGCGGTAAGAT CCTTGAGAGTTTTCGCCCCGAAGAACGTTTTCCAATGATGAGCACTTTTAAAGTTCTGCT ATGTGGCGCGGTATTATCCCGTATTGACGCCGGGCAAGAGCAACTCGGTCGCCGCATACA CTATTCTCAGAATGACTTGGTTGAGTACTCACCAGTCACAGAAAAGCATCTTACGGATGG CATGACAGTAAGAGAATTATGCAGTGCTGCCATAACCATGAGTGATAACACTGCGGCCAA 30 CTTACTTCTGACAACGATCGGAGGACCGAAGGAGCTAACCGCTTTTTTGCACAACATGGG CGAGCGTGACACCACGATGCCTGTAGCAATGGCAACAACGTTGCGCAAACTATTAACTGG TGCAGGACCACTTCTGCGCTCGGCCCTTCCGGCTGGCTTGTTATTGCTGATAAATCTGG 35 AGCCGGTGAGCGTGGGTCTCGCGGTATCATTGCAGCACTGGGGCCAGATGGTAAGCCCTC CCGTATCGTAGTTATCTACACGACGGGGAGTCAGGCAACTATGGATGAACGAAATAGACA GATCGCTGAGATAGGTGCCTCACTGATTAAGCATTGGTAACTGTCAGACCAAGTTTACTC CCTTTTTGATAATCTCATGACCAAAATCCCTTAACGTGAGTTTTCGTTCCACTGAGCGTC 40 AGACCCCGTAGAAAAGATCAAAGGATCTTCTTGAGATCCTTTTTTTCTGCGCGTAATCTG ACCAACTCTTTTTCCGAAGGTAACTGGCTTCAGCAGAGCGCAGATACCAAATACTGTCCT TCTAGTGTAGCCGTAGTTAGGCCACCACTTCAAGAACTCTGTAGCACCGCCTACATACCT CGCTCTGCTAATCCTGTTACCAGTGGCTGCCAGTGGCGATAAGTCGTGTCTTACCGG 45 GTTGGACTCAAGACGATAGTTACCGGATAAGGCGCAGCGGTCGGGCTGAACGGGGGGTTC GTGCACACAGCCCAGCTTGGAGCGAACGACCTACACCGAACTGAGATACCTACAGCGTGA GCTATGAGAAAGCGCCACGCTTCCCGAAGGGAGAAAGGCGGACAGGTATCCGGTAAGCGG CAGGGTCGGAACAGGAGGCGCACGAGGGAGCTTCCAGGGGGAAACGCCTGGTATCTTTA TAGTCCTGTCGGGTTTCGCCACCTCTGACTTGAGCGTCGATTTTTGTGATGCTCGTCAGG 50 GGGGCGGAGCCTATGGAAAAACGCCAGCAACGCGGCCTTTTTACGGTTCCTGGCCTTTTG CTGGCCTTTTGCTCACATGGCTCGACAGATCT

PESDSYNGP (SEQ ID No 54)

TCAATATTGGCCATTAGCCATATTATTCATTGGTTATATAGCATAAATCAATATTGGCTA
TTGGCCATTGCATACGTTGTATCTATATCATAATATGTACATTTATATTGGCTCATGTCC
AATATGACCGCCATGTTGGCATTGATTATTGACTAGTTATTAATAGTAATCAATTACGGG
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GCCTGGCTGACCGCCCAACGACCCCCGCCCATTGACGTCAATAATGACGTATGTTCCCAT
AGTAACGCCAATAGGGACTTTCCATTGACGTCAATGGGTGGAGTATTTACGGTAAACTGC
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CGGTAAATGGCCCGCCTGGCATTATGCCCAGTACATGACCTTACGGGACTTTCCTACTTG
GCAGTACATCTACGTATTAGTCATCGCTATTACCATGGTGATGCGGTTTTTGGCAGTACAC
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CAATGGGAGTTTGTTTTGGCACCAAAATCAACGGGACTTTCCAAAATGTCGTAACAACTG CGATCGCCCGCCCGTTGACGCAAATGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATA AGCAGAGCTCGTTTAGTGAACCGTCAGATCACTAGAAGCTTTATTGCGGTAGTTTATCAC AGTTAAATTGCTAACGCAGTCAGTGCTTCTGACACACAGTCTCGAACTTAAGCTGCAGT GACTCTCTTAAGGTAGCCTTGCAGAAGTTGGTCGTGAGGCACTGGGCAGGTAAGTATCAA GGTTACAAGACAGGTTTAAGGAGACCAATAGAAACTGGGCTTGTCGAGACAGAAGAACT CTTGCGTTTCTGATAGGCACCTA1TGGTCTTACTGACATCCACTTTGCCTTTCTCCAC AGGTGTCCACTCCCAGTTCAATTACAGCTCTTAAGGCTAGAGTACTTAATACGACTCACT ATAGGCTAGAGAATTCCAGGTAAGATGGGCGATCCCCTCACCTGGTCCAAAGCCCTGAAG AAACTGGAAAAAGTCACCGTTCAGGGTAGCCAAAAGCTTACCACAGGCAATTGCAACTGG 10 GCATTGTCCCTGGTGGATCTTTTCCACGACACTAATTTCGTTAAGGAGAAAGATTGGCAA CTCAGAGACGTGATCCCCCTCTTGGAGGACGTGACCCAAACATTGTCTGGGCAGGAGCGC GAAGCTTTCGAGCGCACCTGGTGGGCCATCAGCGCAGTCAAAATGGGGCTGCAAATCAAC :\ACGTGGTTGACGGTAAAGCTAGCTTTCAACTGCTCCGCGCTAAGTACGAGAAGAAAACC GCCAACAAGAAACAATCCGAACCTAGCGAGGAGTACCCAATTATGATCGACGGCGCCGGC 15 AATAGGAACTTCCGCCCACTGACTCCCAGGGGCTATACCACCTGGGTCAACACCATCCAG ACCTCCGAAGAAATGAATGCTTTTCTCGACGTGGTGCCAGGACAGGCTGGACAGAAACAG ATCCTGCTCGATGCCATTGACAAGATCGCCGACGACTGGGATAATCGCCACCCCTGCCA AACGCCCCTCTGGTGGCTCCCCCACAGGGGCCTATCCCTATGACCGCTAGGTTCATTAGG 20 GGACTGGGGGTGCCCCGCGAACGCCAGATGGAGCCAGCATTTGACCAATTTAGGCAGACC TACAGACAGTGGATCATCGAAGCCATGAGCGAGGGGATTAAAGTCATGATCGGAAAGCCC AAGGCACAGAACATCAGGCAGGGGGCCAAGGAACCATACCCTGAGTTTGTCGACAGGCTT CTGACTATCCAAAATGCAAATGAAGAGTGCAGAAACGCCATGAGGCACCTCAGACCTGAA 25 GATACCCTGGAGGAGAAAATGTACGCATGTCGCGACATTGGCACTACCAAGCAAAAGATG ATGCTGCTCGCCAAGGCTCTGCAAACCGGCCTGGCTGGTCCATTCAAAGGAGGAGCACTG AAGGGAGGTCCATTGAAAGCTGCACAAACATGTTATAATTGTGGGAAGCCAGGACATTTA TCTAGTCAATGTAGAGCACCTAAAGTCTGTTTTAAATGTAAACAGCCTGGACATTTCTCA AAGCAATGCAGAAGTGTTCCAAAAAACGGGAAGCAAGGGGCTCAAGGGAGGCCCCAGAAA 30 CAAACTTTCCCGATACAACAGAAGAGTCAGCACAACAAATCTGTTGTACAAGAGACTCCT CAGACTCAAAATCTGTACCCAGATCTGAGCGAAATAAAAAAGGAATACAATGTCAAGGAG AAGGATCAAGTAGAGGATCTCAACCTGGACAGTTTGTGGGAGTAACATACAATCTCGAGA AGAGGCCCACTACCATCGTCCTGATCAATGACACCCCTCTTAATGTGCTGCTGGACACCG 35 AATACCAGGGCACAGGCATCATCGGCGTTGGAGGCAACGTCGAAACCTTTTCCACTCCTG TCACCATCAAAAAGAAGGGGAGACACATTAAAACCAGAATGCTGGTCGCCGACATCCCCG TCACCATCCTTGGCAGAGACATTCTCCAGGACCTGGGCGCTAAACTCGTGCTGGCACAAC TGTCTAAGGAAATCAAGTTCCGCAAGATCGAGCTGAAAGAGGGGCACAATGGGTCCAAAAA TCCCCAGTGGCCCTGACCAAAGAGAAGCTTGAGGGCGCTAAGGAAATCGTGCAGCGCC 40 TGCTTTCTGAGGGCAAGATTAGCGAGGCCAGCGACAATAACCCTTACAACAGCCCCATCT TTGTGATTAAGAAAAGGAGCGGCAAATGGAGACTCCTGCAGGACCTGAGGGAACTCAACA AGACCGTCCAGGTCGGAACTGAGATCTCTCGCGGACTGCCTCACCCCGGCGGCCTGATTA AATGCAAGCACATGACAGTCCTTGACATTGGAGACGCTTATTTTACCATCCCCCTCGATC 45 AACGCTATGTGTGGAAGTGCCTCCCCCAGGGATTTGTGCTTAGCCCCTACATTTACCAGA AGACACTTCAAGAGATCCTCCAACCTTTCCGCGAAAGATACCCAGAGGTTCAACTCTACC AATATATGGACGACCTGTTCATGGGGTCCAACGGGTCTAAGAAGCAGCACAAGGAACTCA TCATCGAACTGAGGGCAATCCTCCTGGAGAAAGGCTTCGAGACACCCGACGACAAGCTGC AAGAAGTTCCTCCATATAGCTGGCTGGGCTACCAGCTTTGCCCTGAAAACTGGAAAGTCC 50 AGAAGATGCAGTTGGATATGGTCAAGAACCCAACACTGAACGACGTCCAGAAGCTCATGG GCAATATTACCTGGATGAGCTCCGGAATCCCTGGGCTTACCGTTAAGCACATTGCCGCAA CTACAAAAGGATGCCTGGAGTTGAACCAGAAGGTCATTTGGACAGAGGAAGCTCAGAAGG AACTGGAGGAGAATAATGAAAAGATTAAGAATGCTCAAGGGCTCCAATACTACAATCCCG AAGAAGAAATGTTGTGCGAGGTCGAAATCACTAAGAACTACGAAGCCACCTATGTCATCA 55 AACAGTCCCAAGGCATCTTGTGGGCCGGAAAGAAATCATGAAGGCCAACAAAGGCTGGT CCACCGTTAAAAATCTGATGCTCCTGCTCCAGCACGTCGCCACCGAGTCTATCACCCGCG TCGGCAAGTGCCCCACCTTCAAAGTTCCCTTCACTAAGGAGCAGGTGATGTGGGAGATGC ACGACTGGAGAATGAAGCTTGTCGAGGAGCCCACTAGCGGAATTACAATCTATACCGACG 60 GCGGAAAGCAAAACGGAGAGGGAATCGCTGCATACGTCACATCTAACGGCCGCACCAAGC AAAAGAGGCTCGGCCCTGTCACTCACCAGGTGGCTGAGAGGATGGCTATCCAGATGGCCC ACATCACAGAGGGCCTTGGCCTGGAGGGACCCCAGTCTCCCTGGTGGCCTATCATCCAGA ATATCCGCGAAAAGGAAATTGTCTATTTCGCCTGGGTGCCTGGACACAAAGGAATTTACG 65 GCAACCAACTCGCCGATGAAGCCGCCAAAATTAAAGAGGAAATCATGCTTGCCTACCAGG

GCACACAGATTAAGGAGAAGAGAGACGAGGACGCTGGCTTTGACCTGTGTGTCCATACG ACATCATGATTCCCGTTAGCGACACAAAGATCATTCCAACCGATGTCAAGATCCAGGTGC CACCCAATTCATTTGGTTGGGTGACCGGAAAGTCCAGCATGGCTAAGCAGGGTCTTCTGA TTAACGGGGGAATCATTGATGAAGGATACACCGGCGAAATCCAGGTGATCTGCACAAATA TCGGCAAAAGCAATATTAAGCTTATCGAAGGGCAGAAGTTCGCTCAACTCATCCTCC 5 AGCACCACAGCAATTCAAGACAACCTTGGGACGAAAACAAGATTAGCCAGAGAGGTGACA AGGGCTTCGGCAGCACAGGTGTGTTCTGGGTGGAGAACATCCAGGAAGCACAGGACGAGC TGGCTAAGCAGATCACACAGGAATGCCCCCACTGCACCAAACAAGGTTCTGGCCCCGCCG 10 TTATCCTGACCTTCGTGGAGAGCAATTCCGGCTACATCCACGCAACACTCCTCCCAAGG AAAATGCATTGTGCACCTCCCTCGCAATTCTGGAATGGGCCAGGCTGTTCTCTCCAAAAT CCCTGCACACCGACAACGGCACCAACTTTGTGGCTGAACCTGTGGTGAATCTGCTGAAGT TCCTGAAAATCGCCCACACCACTGGCATTCCCTATCACCCTGAAAGCCAGGGCATTGTCG AGAGGGCCAACAGAACTCTGAAAGAAAAGATCCAATCTCACAGAGACAATACACAGACAT 15 TGGAGGCCGCACTTCAGCTCGCCCTTATCACCTGCAACAAAGGAAGAAAGCATGGGCG GCCAGACCCCCTGGGAGGTCTTCATCACTAACCAGGCCCAGGTCATCCATGAAAAGCTGC TCTTGCAGCAGGCCCAGTCCTCCAAAAAGTTCTGCTTTTATAAGATCCCCGGTGAGCACG ACTGGAAAGGTCCTACAAGAGTTTTGTGGAAAGGAGACGGCGCAGTTGTGGTGAACGATG AGGGCAAGGGGATCATCGCTGTGCCCCTGACACGCACCAAGCTTCTCATCAAGCCAAACT 20 GAACCCGGGGCGGCCGCTTCCCTTTAGTGAGGGTTAATGCTTCGAGCAGACATGATAAGA TACATTGATGAGTTTGGACAAACCACAACTAGAATGCAGTGAAAAAAATGCTTTATTTGT GAAATTTGTGATGCTATTGCTTTATTTGTAACCATTATAAGCTGCAATAAACAAGTTAAC AACAACAATTGCATTCATTTTATGTTTCAGGTTCAGGGGGAGATGTGGGAGGTTTTTTAA 25 ATAGCGAAGAGGCCCGCACCGATCGCCCTTCCCAACAGTTGCGCAGCCTGAATGGCGAAT GGACGCCCTGTAGCGCGCATTAAGCGCGGCGGTGTGGTGGTTACGCGCAGCGTGAC CGCTACACTTGCCAGCGCCCTAGCGCCCGCTCCTTTCGCTTTCTTCCCTTTCTCGC CACGTTCGCCGGCTTTCCCCGTCAAGCTCTAAATCGGGGGCTCCCTTTAGGGTTCCGATT TAGAGCTTTACGGCACCTCGACCGCAAAAAACTTGATTTGGGTGATGGTTCACGTAGTGG 30 GCCATCGCCCTGATAGACGGTTTTTCGCCCTTTGACGTTGGAGTCCACGTTCTTTAATAG TGGACTCTTGTTCCAAACTGGAACAACACTCAACCCTATCTCGGTCTATTCTTTTGATTT ATAAGGGATTTTGCCGATTTCGGCCTATTGGTTAAAAAATGAGCTGATTTAACAAATATT TAACGCGAATTTTAACAAAATATTAACGTTTACAATTTCGCCTGATGCGGTATTTTCTCC TTACGCATCTGTGCGGTATTTCACACCGCATACGCGGATCTGCGCAGCACCATGGCCTGA 35 AATAACCTCTGAAAGAGGAACTTGGTTAGGTACCTTCTGAGGCGGAAAGAACCAGCTGTG GAATGTGTCAGTTAGGGTGTGGAAAGTCCCCAGGCTCCCCAGCAGCAGCAGAAGTATGCA AAGCATGCATCTCAATTAGTCAGCAACCAGGTGTGGAAAGTCCCCAGGCTCCCCAGCAGG CAGAAGTATGCAAAGCATGCATCTCAATTAGTCAGCAACCATAGTCCCGCCCCTAACTCC GCCCATCCCGCCCTAACTCCGCCCAGTTCCGCCCATTCTCCGCCCCATGGCTGACTAAT 40 TTTTTTTATTTATGCAGAGGCCGAGGCCGCCTCGGCCTCTGAGCTATTCCAGAAGTAGTG AGGAGGCTTTTTTGGAGGCCTAGGCTTTTGCAAAAAGCTTGATTCTTCTGACACAACAGT CTCGAACTTAAGGCTAGAGCCACCATGATTGAACAAGATGGATTGCACGCAGGTTCTCCG GCCGCTTGGGTGGAGAGGCTATTCGGCTATGACTGGGCACAACAGACAATCGGCTGCTCT GATGCCGCCGTGTTCCGGCTGTCAGCGCAGGGGCGCCCGGTTCTTTTTGTCAAGACCGAC 45 ACGGGCGTTCCTTGCGCAGCTGTGCTCGACGTTGTCACTGAAGCGGGAAGGGACTGGCTG CTATTGGGCGAAGTGCCGGGGCAGGATCTCCTGTCATCTCACCTTGCTCCTGCCGAGAAA GTATCCATCATGGCTGATGCAATGCGGCGGCTGCATACGCTTGATCCGGCTACCTGCCCA TTCGACCACCAAGCGAAACATCGCATCGAGCGAGCACGTACTCGGATGGAAGCCGGTCTT 50 GTCGATCAGGATGATCTGGACGAAGAGCATCAGGGGCTCGCGCCAGCCGAACTGTTCGCC AGGCTCAAGGCGCGCATGCCCGACGGCGAGGATCTCGTCGTGACCCATGGCGATGCCTGC TTGCCGAATATCATGGTGGAAAATGGCCGCTTTTCTGGATTCATCGACTGTGGCCGGCTG GGTGTGGCGGACCGCTATCAGGACATAGCGTTGGCTACCCGTGATATTGCTGAAGAGCTT GGCGGCGAATGGGCTGACCGCTTCCTCGTGCTTTACGGTATCGCCGCTCCCGATTCGCAG 55 CGCATCGCCTTCTATCGCCTTCTTGACGAGTTCTTCTGAGCGGGACTCTGGGGTTCGAAA TGACCGACCAAGCGACGCCAACCTGCCATCACGATGGCCGCAATAAAATATCTTTATTT TCATTACATCTGTGTTGTTTTTTGTGTGAATCGATAGCGATAAGGATCCGCGTATGG ACACCCGCTGACGCCCTGACGGGCTTGTCTGCTCCCGGCATCCGCTTACAGACAAGCT 60 GTGACCGTCTCCGGGAGCTGCATGTGTCAGAGGTTTTCACCGTCATCACCGAAACGCGCG AGACGAAAGGGCCTCGTGATACGCCTATTTTTATAGGTTAATGTCATGATAATAATGGTT TCTTAGACGTCAGGTGGCACTTTTCGGGGAAATGTGCGCGGAACCCCTATTTGTTTATTT TTCTAAATACATTCAAATATGTATCCGCTCATGAGACAATAACCCTGATAAATGCTTCAA TAATATTGAAAAAGGAAGAGTATGAGTATTCAACATTTCCGTGTCGCCCTTATTCCCTTT 65 TTTGCGGCATTTTGCCTTCCTGTTTTTGCTCACCCAGAAACGCTGGTGAAAGTAAAAGAT

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GCTGAAGATCAGTTGGGTGCACGAGTGGGTTACATCGAACTGGATCTCAACAGCGGTAAG ATCCTTGAGAGTTTTCGCCCCGAAGAACGTTTTCCAATGATGAGCACTTTTAAAGTTCTG CTATGTGGCGCGGTATTATCCCGTATTGACGCCGGGCAAGAGCAACTCGGTCGCCGCATA CACTATTCTCAGAATGACTTGGTTGAGTACTCACCAGTCACAGAAAAGCATCTTACGGAT GGCATGACAGTAAGAGAATTATGCAGTGCTGCCATAACCATGAGTGATAACACTGCGGCC AACTTACTTCTGACAACGATCGGAGGACCGAAGGAGCTAACCGCTTTTTTTGCACAACATG GACGAGCGTGACACCACGATGCCTGTAGCAATGGCAACAACGTTGCGCAAACTATTAACT 10 GGAGCCGGTGAGCGTGGGTCTCGCGGTATCATTGCAGCACTGGGGCCAGATGGTAAGCCC TCCCGTATCGTAGTTATCTACACGACGGGGAGTCAGGCAACTATGGATGAACGAAATAGA CAGATCGCTGAGATAGGTGCCTCACTGATTAAGCATTGGTAACTGTCAGACCAAGTTTAC TCATATATACTTTAGATTGATTTAAAACTTCATTTTTAATTTAAAAGGATCTAGGTGAAG ATCCTTTTTGATAATCTCATGACCAAAATCCCTTAACGTGAGTTTTCGTTCCACTGAGCG 15 TCAGACCCCGTAGAAAAGATCAAAGGATCTTCTTGAGATCCTTTTTTTCTGCGCGTAATC CTACCAACTCTTTTCCGAAGGTAACTGGCTTCAGCAGAGCGCAGATACCAAATACTGTC CTTCTAGTGTAGCCGTAGTTAGGCCACCACTTCAAGAACTCTGTAGCACCGCCTACATAC CTCGCTCTGCTAATCCTGTTACCAGTGGCTGCTGCCAGTGGCGATAAGTCGTGTCTTACC 20 GGGTTGGACTCAAGACGATAGTTACCGGATAAGGCGCAGCGGTCGGGCTGAACGGGGGGT TCGTGCACACAGCCCAGCTTGGAGCGAACGACCTACACCGAACTGAGATACCTACAGCGT GAGCTATGAGAAAGCGCCACGCTTCCCGAAGGGAGAAAGGCGGACAGGTATCCGGTAAGC GGCAGGGTCGGAACAGGAGAGCGCACGAGGGAGCTTCCAGGGGGAAACGCCTGGTATCTT TATAGTCCTGTCGGGTTTCGCCACCTCTGACTTGAGCGTCGATTTTTGTGATGCTCGTCA 25 GGGGGGCGAGCCTATGGAAAAACGCCAGCAACGCGGCCTTTTTACGGTTCCTGGCCTTT

MLV construct CZCG (SEQ ID No 55)

TGCTGGCCTTTTGCTCACATGGCTCGACAGATCT

GTTACCTTCTGCTCTGCAGAATGGCCAACCTTTAACGTCGGATGGCCGCGAGACGGCACC 30 TTTAACCGAGACCTCATCACCCAGGTTAAGATCAAGGTCTTTTCACCTGGCCCGCATGGA CACCCAGACCAGGTCCCCTACATCGTGACCTGGGAAGCCTTGGCTTTTGACCCCCCTCCC TGGGTCAAGCCCTTTGTACACCCTAAGCCTCCGCCTCCTCTTCCTCCATCCGCCCCGTCT CTCCCCCTTGAACCTCCTCGTTCGACCCCGCCTCGATCCTCCCTTTATCCAGCCCTCACT CCTTCTCTAGGCGCCGGAATTCGTTAACTCGAGAGGCCTGCCACCATGGGGACTGCTCCA 35 AAGAAGAAGCGTAAGGTAGTCGTTTTACAACGTCGTGACTGGGAAAACCCTGGCGTTACC CAACTTAATCGCCTTGCAGCACATCCCCCTTTCGCCAGCTGGCGTAATAGCGAAGAGGCC CGCACCGATCGCCCTTCCCAACAGTTGCGCAGCCTGAATGGCGAATGGCGCTTTGCCTGG TTTCCGGCACCAGAAGCGGTGCCGAAAGCTGGCTGGAGTGCGATCTTCCTGAGGCCGAT ACTGTCGTCGTCCCTCAAACTGGCAGATGCACGGTTACGATGCGCCCATCTACACCAAC 40 GTAACCTATCCCATTACGGTCAATCCGCCGTTTGTTCCCACGGAGAATCCGACGGGTTGT TACTCGCTCACATTTAATGTTGATGAAAGCTGGCTACAGGAAGGCCAGACGCGAATTATT TTTGATGGCGTTAACTCGGCGTTTCATCTGTGGTGCAACGGGCGCTGGGTCGGTTACGGC CAGGACAGTCGTTTGCCGTCTGAATTTGACCTGAGCGCATTTTTACGCGCCGGAGAAAAC 45 CGCCTCGCGGTGATGGTGCTGCGTTGGAGTGACGGCAGTTATCTGGAAGATCAGGATATG TGGCGGATGAGCGGCATTTTCCGTGACGTCTCGTTGCTGCATAAACCGACTACACAAATC AGCGATTTCCATGTTGCCACTCGCTTTAATGATGATTTCAGCCGCGCTGTACTGGAGGCT GAAGTTCAGATGTGCGGGGAGTTGCGTGACTACCTACGGGTAACAGTTTCTTTATGGCAG GGTGAAACGCAGGTCGCCAGCGGCACCGCGCCTTTCGGCGGTGAAATTATCGATGAGCGT 50 GGTGGTTATGCCGATCGCGTCACACTACGTCTGAACGTCGAAAACCCGAAACTGTGGAGC GCCGAAATCCCGAATCTCTATCGTGCGGTGGTTGAACTGCACACCGCCGACGGCACGCTG ATTGAAGCAGAAGCCTGCGATGTCGGTTTCCGCGAGGTGCGGATTGAAAATGGTCTGCTG CTGCTGAACGGCAAGCCGTTGCTGATTCGAGGCGTTAACCGTCACGAGCATCATCCTCTG CATGGTCAGGTCATGGATGAGCAGACGATGGTGCAGGATATCCTGCTGATGAAGCAGAAC **AACTTTAACGCCGTGCGCTGTTCGCATTATCCGAACCATCCGCTGTGGTACACGCTGTGC** 55 GACCGCTACGGCCTGTATGTGGTGGATGAAGCCAATATTGAAACCCACGGCATGGTGCCA ATGAATCGTCTGACCGATGATCCGCGCTGGCTACCGGCGATGAGCGAACGCGTAACGCGA GGCCACGGCGCTAATCACGACGCGCTGTATCGCTGGATCAAATCTGTCGATCCTTCCCGC

CCGGTGCAGTATGAAGGCGGCGGAGCCGACACCACGGCCACCGATATTATTTGCCCGATG TACGCGCGCGTGGATGAAGACCAGCCCTTCCCGGCTGTGCCGAAATGGTCCATCAAAAAA TGGCTTTCGCTACCTGGAGAGACGCGCCCGCTGATCCTTTGCGAATACGCCCACGCGATG GGTAACAGTCTTGGCGGTTTCGCTAAATACTGGCAGGCGTTTCGTCAGTATCCCCGTTTA CAGGGCGCTTCGTCTGGGACTGGGTGGATCAGTCGCTGATTAAATATGATGAAAACGGC 5 AACCCGTGGTCGGCTTACGGCGGTGATTTTGGCGATACGCCGAACGATCGCCAGTTCTGT ATGAACGGTCTGGTCTTTGCCGACCGCACGCCGCATCCAGCGCTGACGGAAGCAAAACAC CAGCAGCAGTTTTCCAGTTCCGTTTATCCGGGCAAACCATCGAAGTGACCAGCGAATAC CTGTTCCGTCATAGCGATAACGAGCTCCTGCACTGGATGGTGGCGCTGGATGGTAAGCCG 10 CCTGAACTACCGCAGCCGGAGAGCGCCGGGCAACTCTGGCTCACAGTACGCGTAGTGCAA CCGAACGCGACCGCATGGTCAGAAGCCGGGCACATCAGCGCCTGGCAGCAGTGGCGTCTG GCGGAAAACCTCAGTGTGACGCTCCCCGCCGCGTCCCACGCCATCCCGCATCTGACCACC AGCGAAATGGATTTTTGCATCGAGCTGGGTAATAAGCGTTGGCAATTTAACCGCCAGTCA GGCTTTCTTTCACAGATGTGGATTGGCGATAAAAAACAACTGCTGACGCCGCTGCGCGAT 15 CAGTTCACCCGTGCACCGCTGGATAACGACATTGGCGTAAGTGAAGCGACCCGCATTGAC CCTAACGCCTGGGTCGAACGCTGGAAGGCGGCGGGCCATTACCAGGCCGAAGCAGCGTTG TTGCAGTGCACGGCAGATACACTTGCTGATGCGGTGCTGATTACGACCGCTCACGCGTGG CAGCATCAGGGGAAAACCTTATTTATCAGCCGGAAAACCTACCGGATTGATGGTAGTGGT CAAATGGCGATTACCGTTGATGTTGAAGTGGCGAGCGATACACCGCATCCGGCGCGGATT 20 GGCCTGAACTGCCAGCTGGCGCAGGTAGCAGAGCGGGTAAACTGGCTCGGATTAGGGCCG CAAGAAACTATCCCGACCGCCTTACTGCCGCCTGTTTTGACCGCTGGGATCTGCCATTG TCAGACATGTATACCCCGTACGTCTTCCCGAGCGAAAACGGTCTGCGCTGCGGGACGCGC GAATTGAATTATGGCCCACACCAGTGGCGCGGCGACTTCCAGTTCAACATCAGCCGCTAC AGTCAACAGCAACTGATGGAAACCAGCCATCGCCATCTGCTGCACGCGGAAGAAGGCACA 25 TGGCTGAATATCGACGGTTTCCATATGGGGATTGGTGGCGACGACTCCTGGAGCCCGTCA GTATCGGCGGAATTCCAGCTGAGCGCCGGTCGCTACCATTACCAGTTGGTCTGGTGTCAA AAATAATAATAACCGGGCAGGGGGGATCCGCAGATCCGGCTGTGGAATGTGTCAGTTA GGGTGTGGAAAGTCCCCAGGCTCCCCAGCAGGCAGAAGTATGCAAAGCATGCCTGCAGGA GTGGGGAGGCACGATGGCCGCTTTGGTCGAGGCGGATCCGGCCATTAGCCATATTATTCA 30 TTGGTTATATAGCATAAATCAATATTGGCTATTGGCCATTGCATACGTTGTATCCATATC ATAATATGTACATTTATATTGGCTCATGTCCAACATTACCGCCATGTTGACATTGATTAT TGACTAGTTATTAATAGTAATCAATTACGGGGTCATTAGTTCATAGCCCATATATGGAGT TCCGCGTTACATAACTTACGGTAAATGGCCCGCCTGGCTGACCGCCCAACGACCCCCCGCC CATTGACGTCAATAATGACGTATGTTCCCATAGTAACGCCAATAGGGACTTTCCATTGAC 35 GTCAATGGGTGGAGTATTTACGGTAAACTGCCCACTTGGCAGTACATCAAGTGTATCATA TGCCAAGTACGCCCCCTATTGACGTCAATGACGGTAAATGGCCCGCCTGGCATTATGCCC AGTACATGACCTTATGGGACTTTCCTACTTGGCAGTACATCTACGTATTAGTCATCGCTA TTACCATGGTGATGCGGTTTTGGCAGTACATCAATGGGCGTGGATAGCGGTTTGACTCAC 40 AACGGGACTTTCCAAAATGTCGTAACAACTCCGCCCCATTGACGCAAATGGGCGGTAGGC ATGTACGGTGGGAGGTCTATATAAGCAGAGCTCGTTTAGTGAACCGTCAGATCGCCTGGA GACGCCATCCACGCTGTTTTGACCTCCATAGAAGACACCGGGACCGATCCAGCCTCCGCG GCCCCAAGCTTGTTGGGATCCACCGGTCGCCACCATGGTGAGCAAGGGCGAGGAGCTGTT CACCGGGGTGGTGCCCATCCTGGTCGAGCTGGACGGCGACGTAAACGGCCACAAGTTCAG 45 CGTGTCCGGCGAGGGCGAGGCGATGCCACCTACGGCAAGCTGACCCTGAAGTTCATCTG CACCACCGGCAAGCTGCCCGTGCCCTGGCCCACCCTCGTGACCACCCTGACCTACGGCGT GCAGTGCTTCAGCCGCTACCCCGACCACATGAAGCAGCACGACTTCTTCAAGTCCGCCAT GCCCGAAGGCTACGTCCAGGAGCGCACCATCTTCTTCAAGGACGACGGCAACTACAAGAC CCGCGCGAGGTGAAGTTCGAGGGCGACACCCTGGTGAACCGCATCGAGCTGAAGGGCAT 50 CGACTTCAAGGAGGACGGCAACATCCTGGGGCACAAGCTGGAGTACAACTACAACAGCCA CAACGTCTATATCATGGCCGACAAGCAGAAGAACGGCATCAAGGTGAACTTCAAGATCCG CCACAACATCGAGGACGGCAGCGTGCAGCTCGCCGACCACTACCAGCAGAACACCCCCAT CGGCGACGGCCCCGTGCTGCCCGACAACCACTACCTGAGCACCCAGTCCGCCCTGAG CAAAGACCCCAACGAGAAGCGCGATCACATGGTCCTGCTGGAGTTCGTGACCGCCGGC 55 GATCACTCTCGGCATGGACGAGCTGTACAAGTAAAGCGGCCGCGACTCTAGATCATAATC AGCCATACCACATTTGTAGAGGTTTTACTTGCTTTAAAAAACCTCCCACACCTCCCCTG **AACCTGAAACATAAAATGAATGCAATTGTTGTTGTTAACATCGATAAAATAAAAGATTTT** ATTTAGTCTCCAGAAAAAGGGGGGAATGAAAGACCCCACCTGTAGGTTTGGCAAGCTAGC TTAAGTAACGCCATTTTGCAAGGCATGGAAAAATACATAACTGAGAATAGAGAAGTTCAG 60

ATCAAGGTCAGGAACAGATGGAACAGCTGAATATGGGCCAAACAGGATATCTGTGGTAAG CAGTTCCTGCCCCGGCTCAGGGCCAAGAACAGATGGAACAGCTGAATATGGGCCAAACAG GATATCTGTGGTAAGCAGTTCCTGCCCCGGCTCAGGGCCAAGAACAGATGGTCCCCAGAT GCGGTCCAGCCCTCAGCAGTTTCTAGAGAACCATCAGATGTTTCCAGGGTGCCCCAAGGA CCTGAAATGACCCTGTGCCTTATTTGAACTAACCAATCAGTTCGCTTCTCGCTTCTGTTC 5 GCGCGCTTCTGCTCCCCGAGCTCAATAAAAGAGCCCACAACCCCTCACTCGGGGCGCCAG TCCTCCGATTGACTGAGTCGCCCGGGTACCCGTGTATCCAATAAACCCTCTTGCAGTTGC ATCCGACTTGTGGTCTCGCTGTTCCTTGGGAGGGTCTCCTCTGAGTGATTGACTACCCGT CAGCGGGGGTCTTTCATTTGGGGGGCTCGTCCGGGATCGGGAGACCCCTGCCCAGGGACCA 10 GTGTCTATGACTGATTTTATGCGCCTGCGTCGGTACTAGTTAGCTAACTAGCTCTGTATC TGGCGGACCCGTGGTGGAACTGACGAGTTCGGAACACCCGGCCGCAACCCTGGGAGAGGA ATTCTCATGTTTGACAGCTTATCATCGATAAGCTTTTTGCAAAAGCCTAGGCCTCCAAAA AAGCCTCCTCACTACTTCTGGAATAGCTCAGAGGCCGAGGCGGCCTCGGCCTCTGCATAA ATAAAAAAAATTAGTCAGCCATGGGGCGGAGAATGGGCGGAACTGGGCGGAGTTAGGGGC 15 ATACTTCTGCCTGGGGGGGCCTGGGGGACTTTCCACACCTGGTTGCTGACTAATTGAGA TGCATGCTTTGCATACTTCTGCCTGCGGGGAGCCTGGGGGACTTTCCACACCCTAACTGA CACACATTCCACAGCCGGATCCTCTACGCCGGACGCATCGTGGCCGGCATCACCGGCGCCC ACAGGTGCGGTTGCTGGCGCCTATATCGCCGACATCACCGATGGGGAAGATCGGGCTCGC 20 CACTTCGGGCTCATGAGCGCTTGTTTCGGCGTGGGTATGGTGGCAGGCCCCGTGGCCGGG GGACTGTTGGGCGCCATCTCCTTGCATGCACCATTCCTTGCGGCGGCGGTGCTCAACGGC CTCAACCTACTGGGCTGCTTCCTAATGCAGGAGTCGCATAAGGGAGAGCGTCGACCG ATGCCCTTGAGAGCCTTCAACCCAGTCAGCTCCTTCCGGTGGGCGCGGGGCATGACTATC GTCGCCGCACTTATGACTGTCTTCTTTATCATGCAACTCGTAGGACAGGTGCCGGCAGCG 25 CTCTGGGTCATTTCGGCGAGGACCGCTTTCGCTGGAGCGCGACGATGATCGGCCTGTCG CTTGCGGTATTCGGAATCTTGCACGCCCTCGCTCAAGCCTTCGTCACTGGTCCCGCCACC AAACGTTTCGGCGAGAAGCAGGCCATTATCGCCGGCATGGCGGCCGACGCGCTGGGCTAC GTCTTGCTGGCGTTCGCGACGCGAGGCTGGATGGCCTTCCCCATTATGATTCTTCTCGCT 30 CATCAGGGACAGCTTCAAGGATCGCTCGCGGCTCTTACCAGCCTAACTTCGATCACTGGA CCGCTGATCGTCACGGCGATTTATGCCGCCTCGGCGAGCACATGGAACGGGTTGGCATGG ATTGTAGGCGCCCCTATACCTTGTCTGCCTCCCCGCGTTGCGTCGCGGTGCATGGAGC CGGGCCACCTCGACCTGAATGGAAGCCGGCGGCACCTCGCTAACGGATTCACCACTCCAA 35 ACATATCCATCGCGTCCGCCATCTCCAGCAGCCGCACGCGGCGCATCTCGGGCAGCGTTG GGTCCTGGCCACGGGTGCGCATGATCGTGCTCCTGTCGTTGAGGACCCGGCTAGGCTGGC GCTGCTGCAAAACGTCTGCGACCTGAGCAACAACATGAATGGTCTTCGGTTTTCCGTGTTT CGTAAAGTCTGGAAACGCGGAAGTCAGCGCCCTGCACCATTATGTTCCGGATCTGCATCG 40 CAGGATGCTGCTGCCTGTGGAACACCTACATCTGTATTAACGAAGCGCTGGCATT GACCCTGAGTGATTTTTCTCTGGTCCCGCCGCATCCATACCGCCAGTTGTTTACCCTCAC AACGTTCCAGTAACCGGGCATGTTCATCATCAGTAACCCGTATCGTGAGCATCCTCTCTC GTTTCATCGGTATCATTACCCCCATGAACAGAAATTCCCCCTTACACGGAGGCATCAAGT GACCAAACAGGAAAAAACCGCCCTTAACATGGCCCGCTTTATCAGAAGCCAGACATTAAC 45 GCTTCTGGAGAAACTCAACGAGCTGGACGCGGATGAACAGGCAGACATCTGTGAATCGCT TCACGACCACGCTGATGAGCTTTACCGCAGCTGCCTCGCGCGTTTCGGTGATGACGGTGA AAACCTCTGACACATGCAGCTCCCGGAGACGGTCACAGCTTGTCTGTAAGCGGATGCCGG GAGCAGACAAGCCCGTCAGGGCGCGTCAGCGGGTGTTGGCGGGTGTCGGGGCGCAGCCAT GACCCAGTCACGTAGCGATAGCGGAGTGTATACTGGCTTAACTATGCGGCATCAGAGCAG 50 ATTGTACTGAGAGTGCACCATATGCGGTGTGAAATACCGCACAGATGCGTAAGGAGAAAA TACCGCATCAGGCGCTCTTCCGCTTCGCTCACTGACTCGCTGCGCTCGGTCGTTCGG CTGCGGCGAGCGGTATCAGCTCACTCAAAGGCGGTAATACGGTTATCCACAGAATCAGGG GATAACGCAGGAAAGAACATGTGAGCAAAAGGCCAGCAAAAGGCCAGGAACCGTAAAAAG GCCGCGTTGCTGGCGTTTTTCCATAGGCTCCGCCCCCTGACGAGCATCACAAAAATCGA 55 CGCTCAAGTCAGAGGTGGCGAAACCCGACAGGACTATAAAGATACCAGGCGTTTCCCCCT GGAAGCTCCCTCGTGCGCTCTCCTGTTCCGACCCTGCCGCTTACCGGATACCTGTCCGCC TTTCTCCCTTCGGGAAGCGTGGCGCTTTCTCATAGCTCACGCTGTAGGTATCTCAGTTCG GTGTAGGTCGTTCGCTCCAAGCTGGGCTGTGTGCACGAACCCCCCGTTCAGCCCGACCGC TGCGCCTTATCCGGTAACTATCGTCTTGAGTCCAACCCGGTAAGACACGACTTATCGCCA 60

CTGGCAGCAGCCACTGGTAACAGGATTAGCAGAGCGAGGTATGTAGGCGGTGCTACAGAG TTCTTGAAGTGGTGGCCTAACTACGGCTACACTAGAAGGACAGTATTTGGTATCTGCGCT ACCGCTGGTAGCGGTGGTTTTTTTGTTTGCAAGCAGCAGATTACGCGCAGAAAAAAAGGA TCTCAAGAAGATCCTTTGATCTTTTCTACGGGGTCTGACGCTCAGTGGAACGAAAACTCA CGTTAAGGGATTTTGGTCATGAGATTATCAAAAAGGATCTTCACCTAGATCCTTTTAAAT TAAAAATGAAGTTTTAAATCAATCTAAAGTATATATGAGTAAACTTGGTCTGACAGTTAC CAATGCTTAATCAGTGAGGCACCTATCTCAGCGATCTGTCTATTTCGTTCATCCATAGTT GCCTGACTCCCCGTCGTGTAGATAACTACGATACGGGAGGGCTTACCATCTGGCCCCAGT GCTGCAATGATACCGCGAGACCCACGCTCACCGGCTCCAGATTATCAGCAATAAACCAG ATTAATTGTTGCCGGGAAGCTAGAGTAAGTAGTTCGCCAGTTAATAGTTTGCGCAACGTT TCCGGTTCCCAACGATCAAGGCGAGTTACATGATCCCCCATGTTGTGCAAAAAAGCGGTT 15 ATGGTTATGGCAGCACTGCATAATTCTCTTACTGTCATGCCATCCGTAAGATGCTTTTCT GTGACTGGTGAGTACTCAACCAAGTCATTCTGAGAATAGTGTATGCGGCGACCGAGTTGC TCTTGCCCGGCGTCAATACGGGATAATACCGCGCCACATAGCAGAACTTTAAAAGTGCTC ATCATTGGAAAACGTTCTTCGGGGCGAAAACTCTCAAGGATCTTACCGCTGTTGAGATCC AGTTCGATGTAACCCACTCGTGCACCCAACTGATCTTCAGCATCTTTTACTTTCACCAGC 20 GTTTCTGGGTGAGCAAAAACAGGAAGGCAAAATGCCGCAAAAAAGGGAATAAGGGCGACA CGGAAATGTTGAATACTCATACTCTTTCTTTTCAATATTATTGAAGCATTTATCAGGGT TATTGTCTCATGAGCGGATACATATTTGAATGTATTTAGAAAAATAAACAAATAGGGGTT CCGCGCACATTTCCCCGAAAAGTGCCACCTGACGTCTAAGAAACCATTATTATCATGACA TTAACCTATAAAAATAGGCGTATCACGAGGCCCTTTCGTCTCGCGCGTTTCGGTGATGAC 25 GGTGAAAACCTCTGACACATGCAGCTCCCGGAGACGGTCACAGCTTGTCTGTAAGCGGAT GCCGGGAGCAGACAAGCCCGTCAGGGCGCGTCAGCGGGTGTTGGCGGGTGTCGGGGCTGG CTTAACTATGCGGCATCAGAGCAGATTGTACTGAGAGTGCACCATATCGACGCTCTCCCT TATGCGACTCCTGCATTAGGAAGCAGCCCAGTAGTAGGTTGAGGCCGTTGAGCACCGCCG CCGCAAGGAATGGTGCATGCAAGGAGATGGCGCCCAACAGTCCCCCGGCCACGGGCCTG 30 CCACCATACCCACGCCGAAACAAGCGCTCATGAGCCCGAAGTGGCGAGCCCGATCTTCCC CATCGGTGATGTCGGCGATATAGGCGCCAGCAACCGCACCTGTGGCGCCGGTGATGCCGG CCACGATGCGTCCGGCGTAGAGGATCTGGCTAGCGATGACCCTGCTGATTGGTTCGCTGA ACTCTGACGGCAGTTTACGAGAGAGATGATAGGGTCTGCTTCAGTAAGCCAGATGCTACA 35 CAATTAGGCTTGTACATATTGTCGTTAGAACGCGGCTACAATTAATACATAACCTTATGT ATCATACACATACGATTTAGGTGACACTATAGAATACAAGCTGGAAGATCTTCCAGCTTG GGCTGCAGGTCGACTCTAGAGTCCGTTACATAACTTACGGTAAATGGCCCGCCTGGCTGA CCGCCCAACGACCCCCGCCCATTGACGTCAATAATGACGTATGTTCCCATAGTAACGCCA ATAGGGACTTTCCATTGACGTCAATGGGTGGAGTATTTACGGTAAACTGCCCACTTGGCA 40 GTACATCAAGTGTATCATATGCCAAGTACGCCCCCTATTGACGTCAATGACGGTAAATGG CCCGCCTGGCATTATGCCCAGTACATGACCTTATGGGACTTTCCTACTTGGCAGTACATC TACGTATTAGTCATCGCTATTACCATGGTGATGCGGTTTTGGCAGTACATCAATGGGCGT GGATAGCGGTTTGACTCACGGGGATTTCCAAGTCTCCACCCCATTGACGTCAATGGGAGT TTGTTTTGGCACCAAAATCAACGGGACTTTCCAAAATGTCGTAACAACTCCGCCCCATTG 45 ACGCAAATGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATAAGCAGAGCTCGTTTAGTG AACCGCGCCAGTCTTCCGATAGACTGCGTCGCCCGGGTACCCGTATTCCCAATAAAGCCT CTTGCTGTTTGCATCCGAATCGTGGTCTCGCTGTTCCTTGGGAGGGTCTCCTCTGAGTGA TTGACTACCCACGACGGGGTCTTTCATTTGGGGGCTCGTCCGGGATTTGGAGACCCCTG CCCAGGGACCACCGACCACCGGGAGGTAAGCTGGCCAGCAACTTATCTGTGTCTGT 50 CCGATTGTCTAGTGTCTATGTTTGATGTTATGCGCCTGCGTCTGTACTAGTTAGCTAACT AGCTCTGTATCTGGCGGACCCGTGGTGGAACTGACGAGTTCTGAACACCCGGCCGCAACC CTGGGAGACGTCCCAGGGACTTTGGGGGCCGTTTTTGTGGCCCGACCTGAGGAAGGGAGT CGATGTGGAATCCGACCCCGTCAGGATATGTGGTTCTGGTAGGAGACGAGAACCTAAAAC AGTTCCCGCCTCCGTCTGAATTTTTGCTTTCGGTTTGGAACCGAAGCCGCGCGTCTTGTC 55 CTGAAAATTAGGGCCAGACTGTTACCACTCCCTTAAGTTTGACCTTAGGTCACTGGAAAG ATGTCGAGCGGATCGCTCACAACCAGTCGGTAGATGTCAAGAAGAGACGTTGG

GTTACCTTCTGCTCTGCAGAATGGCCAACCTTTAACGTCGGATGGCCGCGAGACGGCACC TTTAACCGAGACCTCATCACCCAGGTTAAGATCAAGGTCTTTTCACCTGGCCCGCATGGA CACCCAGACCAGGTCCCCTACATCGTGACCTGGGAAGCCTTGGCTTTTGACCCCCCTCCC TGGGTCAAGCCCTTTGTACACCCTAAGCCTCCGCCTCCTCTTCCTCCATCCGCCCCGTCT 5 CTCCCCCTTGAACCTCCTCGTTCGACCCCGCCTCGATCCTCCCTTTATCCAGCCCTCACT CCTTCTCTAGGCGCCGGAATTCGTTAACTCGAGAGGCCTGCCACCATGGGGACTGCTCCA AAGAAGAAGCGTAAGGTAGTCGTTTTACAACGTCGTGACTGGGAAAACCCTGGCGTTACC CAACTTAATCGCCTTGCAGCACATCCCCCTTTCGCCAGCTGGCGTAATAGCGAAGAGGCC CGCACCGATCGCCCTTCCCAACAGTTGCGCAGCCTGAATGGCGAATGGCGCTTTGCCTGG 10 TTTCCGGCACCAGAAGCGGTGCCGGAAAGCTGGCTGGAGTGCGATCTTCCTGAGGCCGAT ACTGTCGTCGTCCCTCAAACTGGCAGATGCACGGTTACGATGCGCCCATCTACACCAAC GTAACCTATCCCATTACGGTCAATCCGCCGTTTGTTCCCACGGAGAATCCGACGGGTTGT TACTCGCTCACATTTAATGTTGATGAAAGCTGGCTACAGGAAGGCCAGACGCGAATTATT TTTGATGGCGTTAACTCGGCGTTTCATCTGTGGTGCAACGGGCGCTGGGTCGGTTACGGC 15 CAGGACAGTCGTTTGCCGTCTGAATTTGACCTGAGCGCATTTTTACGCGCCGGAGAAAAC CGCCTCGCGGTGATGGTGCTGCGTTGGAGTGACGGCAGTTATCTGGAAGATCAGGATATG TGGCGGATGAGCGCATTTTCCGTGACGTCTCGTTGCTGCATAAACCGACTACACAAATC AGCGATTTCCATGTTGCCACTCGCTTTAATGATGATTTCAGCCGCGCTGTACTGGAGGCT GAAGTTCAGATGTGCGGCGAGTTGCGTGACTACCTACGGGTAACAGTTTCTTTATGGCAG 20 GGTGAAACGCAGGTCGCCAGCGGCACCGCGCCTTTCGGCGGTGAAATTATCGATGAGCGT GGTGGTTATGCCGATCGCGTCACACTACGTCTGAACGTCGAAAACCCGAAACTGTGGAGC GCCGAAATCCCGAATCTCTATCGTGCGGTGGTTGAACTGCACACCGCCGACGGCACGCTG ATTGAAGCAGAAGCCTGCGATGTCGGTTTCCGCGAGGTGCGGATTGAAAATGGTCTGCTG CTGCTGAACGGCAAGCCGTTGCTGATTCGAGGCGTTAACCGTCACGAGCATCATCCTCTG 25 CATGGTCAGGTCATGGATGAGCAGACGATGGTGCAGGATATCCTGCTGATGAAGCAGAAC AACTTTAACGCCGTGCGCTGTTCGCATTATCCGAACCATCCGCTGTGGTACACGCTGTGC GACCGCTACGGCCTGTATGTGGTGGATGAAGCCAATATTGAAACCCACGGCATGGTGCCA ATGAATCGTCTGACCGATGATCCGCGCTGGCTACCGGCGATGAGCGAACGCGTAACGCGA 30 GGCCACGGCGCTAATCACGACGCGCTGTATCGCTGGATCAAATCTGTCGATCCTTCCCGC CCGGTGCAGTATGAAGGCGGCGGAGCCGACACCACGGCCACCGATATTATTTGCCCGATG TACGCGCGCGTGGATGAAGACCAGCCCTTCCCGGCTGTGCCGAAATGGTCCATCAAAAAA TGGCTTTCGCTACCTGGAGAGACGCGCCCGCTGATCCTTTGCGAATACGCCCACGCGATG GGTAACAGTCTTGGCGGTTTCGCTAAATACTGGCAGGCGTTTCGTCAGTATCCCCGTTTA 35 CAGGGCGGCTTCGTCTGGGACTGGGTGGATCAGTCGCTGATTAAATATGATGAAAACGGC AACCCGTGGTCGGCTTACGGCGGTGATTTTGGCGATACGCCGAACGATCGCCAGTTCTGT ATGAACGGTCTGGTCTTTGCCGACCGCACGCCGCATCCAGCGCTGACGGAAGCAAAACAC CAGCAGCAGTTTTTCCAGTTCCGTTTATCCGGGCAAACCATCGAAGTGACCAGCGAATAC CTGTTCCGTCATAGCGATAACGAGCTCCTGCACTGGATGGTGGCGCTGGATGGTAAGCCG 40 CCTGAACTACCGCAGCCGGAGAGCGCCGGGCAACTCTGGCTCACAGTACGCGTAGTGCAA CCGAACGCGACCGCATGGTCAGAAGCCGGGCACATCAGCGCCTGGCAGCAGTGGCGTCTG GCGGAAAACCTCAGTGTGACGCTCCCCGCCGCGTCCCACGCCATCCCGCATCTGACCACC AGCGAAATGGATTTTTGCATCGAGCTGGGTAATAAGCGTTGGCAATTTAACCGCCAGTCA 45 GGCTTTCTTTCACAGATGTGGATTGGCGATAAAAAACAACTGCTGACGCCGCTGCGCGAT CAGTTCACCCGTGCACCGCTGGATAACGACATTGGCGTAAGTGAAGCGACCCGCATTGAC CCTAACGCCTGGGTCGAACGCTGGAAGGCGGCGGGCCATTACCAGGCCGAAGCAGCGTTG TTGCAGTGCACGCAGATACACTTGCTGATGCGGTGCTGATTACGACCGCTCACGCGTGG CAGCATCAGGGGAAAACCTTATTTATCAGCCGGAAAACCTACCGGATTGATGGTAGTGGT 50 CAAATGGCGATTACCGTTGATGTTGAAGTGGCGAGCGATACACCGCATCCGGCGCGCATT GGCCTGAACTGCCAGCTGGCGCAGGTAGCAGAGCGGGTAAACTGGCTCGGATTAGGGCCG CAAGAAACTATCCCGACCGCCTTACTGCCGCCTGTTTTGACCGCTGGGATCTGCCATTG TCAGACATGTATACCCCGTACGTCTTCCCGAGCGAAAACGGTCTGCGCTGCGGGACGCGC GAATTGAATTATGGCCCACACCAGTGGCGCGGCGACTTCCAGTTCAACATCAGCCGCTAC 55 AGTCAACAGCAACTGATGGAAACCAGCCATCGCCATCTGCTGCACGCGGAAGAAGGCACA TGGCTGAATATCGACGGTTTCCATATGGGGGATTGGTGGCGACGACTCCTGGAGCCCGTCA GTATCGGCGGAATTCCAGCTGAGCGCCGGTCGCTACCATTACCAGTTGGTCTGGTGTCAA AAATAATAACCGGGCAGGGGGGGTCCGCAGATCCGGCTGTGGAATGTGTCAGTTA GGGTGTGGAAAGTCCCCAGGCTCCCCAGCAGCAGGAAGTATGCAAAGCATGCCTGCAGGA 60

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GTGGGGAGGCACGATGGCCGCTTTGGTCGAGGCGGATCCGGCCATTAGCCATATTATTCA TTGGTTATATAGCATAAATCAATATTGGCTATTGGCCATTGCATACGTTGTATCCATATC ATAATATGTACATTTATATTGGCTCATGTCCAACATTACCGCCATGTTGACATTGATTAT TGACTAGTTATTAATAGTAATCAATTACGGGGTCATTAGTTCATAGCCCATATATGGAGT TCCGCGTTACATAACTTACGGTAAATGGCCCGCCTGGCTGACCGCCCAACGACCCCCCGCC 5 CATTGACGTCAATAATGACGTATGTTCCCATAGTAACGCCAATAGGGACTTTCCATTGAC GTCAATGGGTGGAGTATTTACGGTAAACTGCCCACTTGGCAGTACATCAAGTGTATCATA TGCCAAGTACGCCCCTATTGACGTCAATGACGGTAAATGGCCCGCCTGGCATTATGCCC AGTACATGACCTTATGGGACTTTCCTACTTGGCAGTACATCTACGTATTAGTCATCGCTA TTACCATGGTGATGCGGTTTTGGCAGTACATCAATGGGCGTGGATAGCGGTTTGACTCAC 10 AACGGGACTTTCCAAAATGTCGTAACAACTCCGCCCCATTGACGCAAATGGGCGGTAGGC ATGTACGGTGGGAGGTCTATATAAGCAGAGCTCGTTTAGTGAACCGTCAGATCGCCTGGA GACGCCATCCACGCTGTTTTGACCTCCATAGAAGACACCGGGACCGATCCAGCCTCCGCG GCCCCAAGCTTGTTGGGATCCACCGGTCGCCACCATGGTGAGCAAGGGCGAGGAGCTGTT 15 CACCGGGGTGGTGCCCATCCTGGTCGAGCTGGACGGCGACGTAAACGGCCACAAGTTCAG CGTGTCCGGCGAGGGCGAGGGCGATGCCACCTACGGCAAGCTGACCCTGAAGTTCATCTG CACCACCGGCAAGCTGCCCGTGCCCTGGCCCACCCTCGTGACCACCCTGACCTACGGCGT GCAGTGCTTCAGCCGCTACCCCGACCACATGAAGCAGCACGACTTCTTCAAGTCCGCCAT GCCCGAAGGCTACGTCCAGGAGCGCACCATCTTCTTCAAGGACGACGGCAACTACAAGAC 20 CCGCGCCGAGGTGAAGTTCGAGGGCGACACCCTGGTGAACCGCATCGAGCTGAAGGGCAT CGACTTCAAGGAGGACGGCAACATCCTGGGGCACAAGCTGGAGTACAACTACAACAGCCA CAACGTCTATATCATGGCCGACAAGCAGAAGAACGGCATCAAGGTGAACTTCAAGATCCG CCACAACATCGAGGACGCGCGCGTGCAGCTCGCCGACCACTACCAGCAGAACACCCCCAT CGGCGACGGCCCCGTGCTGCCCGACAACCACTACCTGAGCACCCAGTCCGCCCTGAG 25 CAAAGACCCCAACGAGAAGCGCGATCACATGGTCCTGCTGGAGTTCGTGACCGCCGCCGG GATCACTCTCGGCATGGACGAGCTGTACAAGTAAAGCGGCCGCGACTCTAGATCATAATC AGCCATACCACATTTGTAGAGGTTTTACTTGCTTTAAAAAACCTCCCACACCTCCCCTG AACCTGAAACATAAAATGAATGCAATTGTTGTTGTTAACATCGATAAAATAAAAGATTTT ATTTAGTCTCCAGAAAAAGGGGGGAATGAAAGACCCCACCTGTAGGTTTGGCAAGCTAGC 30 ATAACTTCGTATAATGTATGCTATACGAAGTTATTCTAGAGAACCATCAGATGTTTCCAG GGTGCCCCAAGGACCTGAAATGACCCTGTGCCTTATTTGAACTAACCAATCAGTTCGCTT CTCGCTTCTGTTCGCGCGCTTCTGCTCCCCGAGCTCAATAAAAGAGCCCACAACCCCTCA CTCGGGGCCCAGTCCTCCGATTGACTGAGTCGCCCGGGTACCCGTGTATCCAATAAACC CTCTTGCAGTTGCATCCGACTTGTGGTCTCGCTGTTCCTTGGGAGGGTCTCCTCTGAGTG 35 ATTGACTACCCGTCAGCGGGGTCTTTCATTTGGGGGCTCGTCCGGGATCGGGAGACCCC ATGACGGTGAAAACCTCTGACACATGCAGCTCCCGGAGACGGTCACAGCTTGTCTGTAAG CGGATGCCGGGAGCAGACAAGCCCGTCAGGGCGCGTCAGCGGGTGTTGGCGGGTGTCGGG GCGCAGCCATGACCCAGTCACGTAGCGATAGCGGAGTGTATACTGGCTTAACTATGCGGC 40 ATCAGAGCAGATTGTACTGAGAGTGCACCATATGCGGTGTGAAATACCGCACAGATGCGT AAGGAGAAAATACCGCATCAGGCGCTCTTCCGCTTCCTCGCTCACTGACTCGCTGCGCTC GGTCGTTCGGCTGCGGCGAGCGGTATCAGCTCACTCAAAGGCGGTAATACGGTTATCCAC AGAATCAGGGGATAACGCAGGAAAGAACATGTGAGCAAAAGGCCAGCAAAAGGCCAGGAA CCGTAAAAAGGCCGCGTTGCTGGCGTTTTTCCATAGGCTCCGCCCCCTGACGAGCATCA 45 CAAAAATCGACGCTCAAGTCAGAGGTGGCGAAACCCGACAGGACTATAAAGATACCAGGC GTTTCCCCCTGGAAGCTCCCTCGTGCGCTCTCCTGTTCCGACCCTGCCGCTTACCGGATA CCTGTCCGCCTTTCTCCCTTCGGGAAGCGTGGCGCTTTCTCATAGCTCACGCTGTAGGTA TCTCAGTTCGGTGTAGGTCGTTCGCTCCAAGCTGGGCTGTGTGCACGAACCCCCCGTTCA GCCCGACCGCTGCGCCTTATCCGGTAACTATCGTCTTGAGTCCAACCCGGTAAGACACGA 50 CTTATCGCCACTGGCAGCCACTGGTAACAGGATTAGCAGAGCGAGGTATGTAGGCGG TGCTACAGAGTTCTTGAAGTGGTGGCCTAACTACGGCTACACTAGAAGGACAGTATTTGG TATCTGCGCTCTGCTGAAGCCAGTTACCTTCGGAAAAAGAGTTGGTAGCTCTTGATCCGG CAAACAAACCACCGCTGGTAGCGGTGGTTTTTTTTTTTGCAAGCAGCAGATTACGCGCAG AAAAAAAGGATCTCAAGAAGATCCTTTGATCTTTTCTACGGGGTCTGACGCTCAGTGGAA CGAAAACTCACGTTAAGGGATTTTGGTCATGAGATTATCAAAAAGGATCTTCACCTAGAT CCTTTTAAATTAAAAATGAAGTTTTAAATCAATCTAAAGTATATATGAGTAAACTTGGTC TGACAGTTACCAATGCTTAATCAGTGAGGCACCTATCTCAGCGATCTGTCTATTTCGTTC ATCCATAGTTGCCTGACTCCCCGTCGTGTAGATAACTACGATACGGGAGGGCTTACCATC TGGCCCCAGTGCTGCAATGATACCGCGAGACCCACGCTCACCGGCTCCAGATTTATCAGC 60

AATAAACCAGCCAGCCGGAAGGGCCGAGCGCAGAAGTGGTCCTGCAACTTTATCCGCCTC GCGCAACGTTGTTGCCATTGCTGCAGGCATCGTGGTGTCACGCTCGTCGTTTGGTATGGC TTCATTCAGCTCCGGTTCCCAACGATCAAGGCGAGTTACATGATCCCCCATGTTGTGCAA ATCACTCATGGTTATGGCAGCACTGCATAATTCTCTTACTGTCATGCCATCCGTAAGATG CTTTTCTGTGACTGGTGAGTACTCAACCAAGTCATTCTGAGAATAGTGTATGCGGCGACC GAGTTGCTCTTGCCCGGCGTCAACACGGGATAATACCGCGCCACATAGCAGAACTTTAAA AGTGCTCATCATTGGAAAACGTTCTTCGGGGCGAAAACTCTCAAGGATCTTACCGCTGTT GAGATCCAGTTCGATGTAACCCACTCGTGCACCCAACTGATCTTCAGCATCTTTTACTTT 10 CACCAGCGTTTCTGGGTGAGCAAAAACAGGAAGGCAAAATGCCGCAAAAAAGGGAATAAG GGCGACACGGAAATGTTGAATACTCATACTCTTCCTTTTTCAATATTATTGAAGCATTTA TCAGGGTTATTGTCTCATGAGCGGATACATATTTGAATGTATTTAGAAAAAATAAACAAAT AGGGGTTCCGCGCACATTTCCCCGAAAAGTGCCACCTGACGTCTAAGAAACCATTATTAT CATGACATTAACCTATAAAAATAGGCGTATCACGAGGCCCTTTCGTCTTCAAGAATTCAT 15 ACCAGATCACCGAAAACTGTCCTCCAAATGTGTCCCCCTCACACTCCCAAATTCGCGGGC TTCTGCCTCTTAGACCACTCTACCCTATTCCCCACACTCACCGGAGCCAAAGCCGCGGCC CTTCCGTTTCTTTGCTTTTGAAAGACCCCACCCGTAGGTGGCAAGCTAGCGATGACCCTG CTGATTGGTTCGCTGACCATTTCCGGGGTGCGGAACGGCGTTACCAGAAACTCAGAAGGT 20 TAAGCCAGATGCTACACAATTAGGCTTGTACATATTGTCGTTAGAACGCGGCTACAATTA ATACATAACCTTATGTATCATACACATACGATTTAGGTGACACTATAGAATACAAGCTGG AAGATCTTCCAGCTTGGGCTGCAGGTCGACTCTAGAGTCCGTTACATAACTTACGGTAAA TGGCCCGCCTGGCTGACCGCCCAACGACCCCCCGCCCATTGACGTCAATAATGACGTATGT TCCCATAGTAACGCCAATAGGGACTTTCCATTGACGTCAATGGGTGGAGTATTTACGGTA 25 AACTGCCCACTTGGCAGTACATCAAGTGTATCATATGCCAAGTACGCCCCCTATTGACGT CAATGACGGTAAATGGCCCGCCTGGCATTATGCCCAGTACATGACCTTATGGGACTTTCC TACTTGGCAGTACATCTACGTATTAGTCATCGCTATTACCATGGTGATGCGGTTTTGGCA GTACATCAATGGGCGTGGATAGCGGTTTGACTCACGGGGATTTCCAAGTCTCCACCCCAT TGACGTCAATGGGAGTTTGTTTTGGCACCAAAATCAACGGGACTTTCCAAAATGTCGTAA 30 CAACTCCGCCCCATTGACGCAAATGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATAAG CAGAGCTCGTTTAGTGAACCGCGCCAGTCTTCCGATAGACTGCGTCGCCCGGGTACCCGT ATTCCCAATAAAGCCTCTTGCTGTTTGCATCCGAATCGTGGTCTCGCTGTTCCTTGGGAG GGTCTCCTCTGAGTGATTGACTACCCACGACGGGGGTCTTTCATTTGGGGGCTCGTCCGG GATTTGGAGACCCCTGCCCAGGGACCACCGACCCACCGGGAGGTAAGCTGGCCAGCA 35 ACTTATCTGTGTCTGTCCGATTGTCTAGTGTCTATGTTTGATGTTATGCGCCTGCGTCTG TACTAGTTAGCTAACTAGCTCTGTATCTGGCGGACCCGTGGTGGAACTGACGAGTTCTGA ACACCCGGCCGCAACCCTGGGAGACGTCCCAGGGACTTTGGGGGGCCGTTTTTGTGGCCCG ACCTGAGGAAGGGAGTCGATGTGGAATCCGACCCCGTCAGGATATGTGGTTCTGGTAGGA GACGAGAACCTAAAACAGTTCCCGCCTCCGTCTGAATTTTTGCTTTCGGTTTGGAACCGA 40 AGCCGCGCGTCTTGTCTGCTGCAGCGCTGCAGCATCGTTCTGTGTTGTCTCTGACT GTGTTTCTGTATTTGTCTGAAAATTAGGGCCAGACTGTTACCACTCCCTTAAGTTTGACC TTAGGTCACTGGAAAGATGTCGAGCGGATCGCTCACAACCAGTCGGTAGATGTCAAGAAG AGACGTTGG

PCGCLNGFR (SEQ ID No 57)

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GTTACCTTCTGCTCTGCAGAATGGCCAACCTTTAACGTCGGATGGCCGCGAGACGGCACC TTTAACCGAGACCTCATCACCCAGGTTAAGATCAAGGTCTTTTCACCTGGCCCGCATGGA CACCCAGACCAGGTCCCCTACATCGTGACCTGGGAAGCCTTGGCTTTTGACCCCCCTCCC 50 TGGGTCAAGCCCTTTGTACACCCTAAGCCTCCGCCTCCTCTTCCTCCATCCGCCCCGTCT CTCCCCCTTGAACCTCCTCGTTCGACCCCGCCTCGATCCTCCCTTTATCCAGCCCTCACT CCTTCTCTAGGCGCCGGAATTCGTTAACTCGAGGATCCACCGGTCGCCACCATGGTGAGC AAGGGCGAGGAGCTGTTCACCGGGGTGGTGCCCATCCTGGTCGAGCTGGACGGCGACGTA AACGGCCACAAGTTCAGCGTGTCCGGCGAGGGCGAGGGCGATGCCACCTACGGCAAGCTG 55 ACCCTGAAGTTCATCTGCACCACCGGCAAGCTGCCCGTGCCCTGGCCCACCCTCGTGACC ACCCTGACCTACGGCGTGCAGTGCTTCAGCCGCTACCCCGACCACATGAAGCAGCACGAC TTCTTCAAGTCCGCCATGCCCGAAGGCTACGTCCAGGAGCGCACCATCTTCTTCAAGGAC GACGGCAACTACAAGACCCGCGCGGGGGGGGAAGTTCGAGGGCGACACCCTGGTGAACCGC ATCGAGCTGAAGGGCATCGACTTCAAGGAGGACGGCAACATCCTGGGGCACAAGCTGGAG 60

TACAACTACAACAGCCACAACGTCTATATCATGGCCGACAAGCAGAAGAACGGCATCAAG GTGAACTTCAAGATCCGCCACAACATCGAGGACGGCAGCGTGCAGCTCGCCGACCACTAC CAGCAGAACACCCCCATCGGCGACGGCCCCGTGCTGCTGCCCGACAACCACTACCTGAGC ACCCAGTCCGCCCTGAGCAAAGACCCCAACGAGAAGCGCGATCACATGGTCCTGCTGGAG TTCGTGACCGCCGCGGGATCACTCTCGGCATGGACGAGCTGTACAAGTAAAGCGGCCCT 5 AACCCCCACCTGGCGACAGGTGCCTCTGCGGCCAAAAGCCACCGAGTTGGTTCAGCTGC TGCCTGAGGCTGGACGACCTCGCGGAGTTCTACCGGCAGTGCAAATCCGTCGGCATCCAG GAAACCAGCAGCGGCTATCCGCGCATCCATGCCCCGAACTGCAGGAGTGGGGAGGCACG 10 ATGGCCGCTTTGGTCGAGGCGGATCCGGCCATTAGCCATATTATTCATTGGTTATATAGC ATAAATCAATATTGGCTATTGGCCATTGCATACGTTGTATCCATATCATAATATGTACAT TTATATTGGCTCATGTCCAACATTACCGCCATGTTGACATTGATTATTGACTAGTTATTA ATAGTAATCAATTACGGGGTCATTAGTTCATAGCCCATATATGGAGTTCCGCGTTACATA 15 AATGACGTATGTTCCCATAGTAACGCCAATAGGGACTTTCCATTGACGTCAATGGGTGGA GTATTTACGGTAAACTGCCCACTTGGCAGTACATCAAGTGTATCATATGCCAAGTACGCC CCCTATTGACGTCAATGACGGTAAATGGCCCGCCTGGCATTATGCCCAGTACATGACCTT ATGGGACTTTCCTACTTGGCAGTACATCTACGTATTAGTCATCGCTATTACCATGGTGAT GCGGTTTTGGCAGTACATCAATGGGCGTGGATAGCGGTTTGACTCACGGGGATTTCCAAG . 20 TCTCCACCCATTGACGTCAATGGGAGTTTGTTTTGGCACCAAAATCAACGGGACTTTCC AAAATGTCGTAACAACTCCGCCCCATTGACGCAAATGGGCGGTAGGCATGTACGGTGGGA GGTCTATATAAGCAGAGCTCGTTTAGTGAACCGTCAGATCGCCTGGAGACGCCATCCACG CTGTTTTGACCTCCATAGAAGACACCGGGACCGATCCAGCCTCCGCGGCCCCAAGCTTAC CATGGGGGCAGGTGCCACCGGCCGCGCCATGGACGGGCCGCGCCTGCTGCTGCTGCT 25 CGGTGAGTGCTGCAAAGCCTGCAACCTGGGCGAGGGTGTGGCCCAGCCTTGTGGAGCCAA CCAGACCGTGTGTGAGCCCTGCCTGGACAGCGTGACGTTCTCCGACGTGGTGAGCGCGAC CGAGCCGTGCAAGCCGTGCACCGAGTGCGTGGGGCTCCAGAGCATGTCGGCGCCGTGCGT GGAGGCCGACGACGCCGTGTGCCGCTGCGCCTACGGCTACTACCAGGATGAGACGACTGG 30 GCGCTGCGAGGCGTGCCGCGTGTGCGAGGCGGGCCTCGGGCCTCGTGTTCTCCTGCCAGGA CAAGCAGAACACCGTGTGCGAGGAGTGCCCCGACGGCACGTATTCCGACGAGGCCAACCA CGTGGACCCGTGCCCTGCACCGTGTGCGAGGACACCGAGCGCCAGCTCCGCGAGTG CACACGCTGGGCCGACGCCGAGTGCGAGGAGATCCCTGGCCGTTGGATTACACGGTCCAC ACCCCCAGAGGGCTCGGACAGCACAGCCCCCAGCACCCAGGAGCCTGAGGCACCTCCAGA 35 ACAAGACCTCATAGCCAGCACGGTGGCAGGTGTGGTGACCACAGTGATGGGCAGCTCCCA GCCCGTGGTGACCCGAGGCACCACCGACAACCTCATCCCTGTCTATTGCTCCATCCTGGC TGCTGTGGTTGTGGGCCTTGTGGCCTACATAGCCTTCAAGAGGTGGAACAGCTGCTGAGT 40 CAAGGCATGGAAAAATACATAACTGAGAATAGAGAAGTTCAGATCAAGGTCAGGAACAGA TGGAACAGCTGAATATGGGCCAAACAGGATATCTGTGGTAAGCAGTTCCTGCCCCGGCTC AGGGCCAAGAACAGATGGAACAGCTGAATATGGGCCAAACAGGATATCTGTGGTAAGCAG TTCCTGCCCCGGCTCAGGGCCAAGAACAGATGGTCCCCAGATGCGGTCCAGCCCTCAGCA GTTTCTAGAGAACCATCAGATGTTTCCAGGGTGCCCCAAGGACCTGAAATGACCCTGTGC 45 CTTATTTGAACTAACCAATCAGTTCGCTTCTCGCTTCTGTTCGCGCGCCTTCTGCTCCCCG AGCTCAATAAAAGAGCCCACAACCCCTCACTCGGGGCGCCAGTCCTCCGATTGACTGAGT CGCCCGGGTACCCGTGTATCCAATAAACCCTCTTGCAGTTGCATCCGACTTGTGGTCTCG CTGTTCCTTGGGAGGGTCTCCTCTGAGTGATTGACTACCCGTCAGCGGGGGTCTTTCATT TGGGGGCTCGTCCGGGATCGGGAGACCCCTGCCCAGGGACCACCGACCCACCGGGAG 50 GTAAGCTGGCTGCCTCGCGCGTTTCGGTGATGACGGTGAAAACCTCTGACACATGCAGCT CCCGGAGACGGTCACAGCTTGTCTGTAAGCGGATGCCGGGAGCAGACAAGCCCGTCAGGG CGCGTCAGCGGGTGTTGGCGGGTGTCGGGGCGCAGCCATGACCCAGTCACGTAGCGATAG CGGAGTGTATACTGGCTTAACTATGCGGCATCAGAGCAGATTGTACTGAGAGTGCACCAT ATGCGGTGTGAAATACCGCACAGATGCGTAAGGAGAAAATACCGCATCAGGCGCTCTTCC 55 GCTTCCTCGCTCACTGACTCGCTGCGCTCGGTCGTTCGGCTGCGGCGAGCGGTATCAGCT CACTCAAAGGCGGTAATACGGTTATCCACAGAATCAGGGGATAACGCAGGAAAGAACATG TGAGCAAAAGGCCAGCAAAAGGCCAGGAACCGTAAAAAGGCCGCGTTGCTGGCGTTTTTC CATAGGCTCCGCCCCCTGACGAGCATCACAAAAATCGACGCTCAAGTCAGAGGTGGCGA AACCCGACAGGACTATAAAGATACCAGGCGTTTCCCCCTGGAAGCTCCCTCGTGCGCTCT 60

CCTGTTCCGACCCTGCCGCTTACCGGATACCTGTCCGCCTTTCTCCCTTCGGGAAGCGTG GCGCTTTCTCATAGCTCACGCTGTAGGTATCTCAGTTCGGTGTAGGTCGTTCGCTCCAAG CTGGGCTGTGCACGAACCCCCGTTCAGCCCGACCGCTGCGCCTTATCCGGTAACTAT CGTCTTGAGTCCAACCCGGTAAGACACGACTTATCGCCACTGGCAGCAGCCACTGGTAAC AGGATTAGCAGAGCGAGGTATGTAGGCGGTGCTACAGAGTTCTTGAAGTGGTGGCCTAAC TACGGCTACACTAGAAGGACAGTATTTGGTATCTGCGCTCTGCTGAAGCCAGTTACCTTC GGAAAAAGAGTTGGTAGCTCTTGATCCGGCAAACAAACCACCGCTGGTAGCGGTGGTTTT TTTGTTTGCAAGCAGCAGATTACGCGCAGAAAAAAAGGATCTCAAGAAGATCCTTTGATC TTTTCTACGGGGTCTGACGCTCAGTGGAACGAAAACTCACGTTAAGGGATTTTGGTCATG AGATTATCAAAAAGGATCTTCACCTAGATCCTTTTAAATTAAAAATGAAGTTTTAAATCA 10 ATCTAAAGTATATGAGTAAACTTGGTCTGACAGTTACCAATGCTTAATCAGTGAGGCA CCTATCTCAGCGATCTGTCTATTTCGTTCATCCATAGTTGCCTGACTCCCCGTCGTGTAG ATAACTACGATACGGGAGGGCTTACCATCTGGCCCCAGTGCTGCAATGATACCGCGAGAC AGAAGTGGTCCTGCAACTTTATCCGCCTCCATCCAGTCTATTAATTGTTGCCGGGAAGCT 15 AGAGTAAGTAGTTCGCCAGTTAATAGTTTGCGCAACGTTGTTGCCATTGCTGCAGGCATC GTGGTGTCACGCTCGTTTGGTATGGCTTCATTCAGCTCCGGTTCCCAACGATCAAGG CGAGTTACATGATCCCCCATGTTGTGCAAAAAAGCGGTTAGCTCCTTCGGTCCTCCGATC GTTGTCAGAAGTAAGTTGGCCGCAGTGTTATCACTCATGGTTATGGCAGCACTGCATAAT TCTCTTACTGTCATGCCATCCGTAAGATGCTTTTCTGTGACTGGTGAGTACTCAACCAAG 20 TCATTCTGAGAATAGTGTATGCGGCGACCGAGTTGCTCTTGCCCGGCGTCAATACGGGAT AATACCGCGCCACATAGCAGAACTTTAAAAGTGCTCATCATTGGAAAACGTTCTTCGGGG CGAAAACTCTCAAGGATCTTACCGCTGTTGAGATCCAGTTCGATGTAACCCACTCGTGCA CCCAACTGATCTTCAGCATCTTTTACTTTCACCAGCGTTTCTGGGTGAGCAAAAACAGGA AGGCAAAATGCCGCAAAAAAGGGAATAAGGGCGACACGGAAATGTTGAATACTCATACTC TTCCTTTTTCAATATTATTGAAGCATTTATCAGGGTTATTGTCTCATGAGCGGATACATA TTTGAATGTATTTAGAAAAATAAACAAATAGGGGTTCCGCGCACATTTCCCCGAAAAGTG CCACCTGACGTCTAAGAAACCATTATTATCATGACATTAACCTATAAAAATAGGCGTATC ACGAGGCCCTTTCGTCTCGCGCGTTTCGGTGATGACGGTGAAAACCTCTGACACATGCAG CTCCCGGAGACGGTCACAGCTTGTCTGTAAGCGGATGCCGGGAGCAGACAAGCCCGTCAG 30 GGCGCGTCAGCGGGTGTTGGCGGGTGTCGGGGCTGGCTTAACTATGCGGCATCAGAGCAG ATTGTACTGAGAGTGCACCATATGGACATATTGTCGTTAGAACGCGGCTACAATTAATAC ATAACCTTATGTATCATACACATACGATTTAGGTGACACTATAGAACTCGACTCTAGAGT TGACGTCAATAATGACGTATGTTCCCATAGTAACGCCAATAGGGACTTTCCATTGACGTC 35 AATGGGTGGAGTATTTACGGTAAACTGCCCACTTGGCAGTACATCAAGTGTATCATATGC CAAGTACGCCCCTATTGACGTCAATGACGGTAAATGGCCCGCCTGGCATTATGCCCAGT ACATGACCTTATGGGACTTTCCTACTTGGCAGTACATCTACGTATTAGTCATCGCTATTA CCATGGTGATGCGGTTTTGGCAGTACATCAATGGGCGTGGATAGCGGTTTGACTCACGGG 40 GGGACTTTCCAAAATGTCGTAACAACTCCGCCCCATTGACGCAAATGGGCGGTAGGCGTG TACGGTGGGAGGTCTATATAAGCAGAGCTCGTTTAGTGAACCGCGCCAGTCTTCCGATAG ACTGCGTCGCCCGGGTACCCGTATTCCCAATAAAGCCTCTTGCTGTTTGCATCCGAATCG TGGTCTCGCTGTTCCTTGGGAGGGTCTCCTCTGAGTGATTGACTACCCACGACGGGGGTC TTTCATTTGGGGGCTCGTCCGGGATTTGGAGACCCCTGCCCAGGGACCACCGACCCACCA 45 CCGGGAGGTAAGCTGGCCAGCAACTTATCTGTGTCTGTCCGATTGTCTAGTGTCTATGTT TGATGTTATGCGCCTGCGTCTGTACTAGTTAGCTAACTAGCTCTGTATCTGGCGGACCCG TGGTGGAACTGACGAGTTCTGAACACCCGGCCGCAACCCTGGGAGACGTCCCAGGGACTT TGGGGGCCGTTTTTGTGGCCCGACCTGAGGAAGGGAGTCGATGTGGAATCCGACCCCGTC AGGATATGTGGTTCTGGTAGGAGACCGAGAACCTAAAACAGTTCCCGCCTCCGTCTGAATT 50 TTTGCTTTCGGTTTGGAACCGAAGCCGCGCGTCTTGTCTGCTGCAGCGCTGCAGCATCGT TCTGTGTTGTCTGTCTGACTGTGTTTCTGTATTTGTCTGAAAATTAGGGCCAGACTGT TACCACTCCCTTAAGTTTGACCTTAGGTCACTGGAAAGATGTCGAGCGGATCGCTCACAA CCAGTCGGTAGATGTCAAGAAGAGACGTTGG

PLTRI xP (SEQ ID No 58)

GCTAGCATAACTTCGTATAATGTATGCTATACGAAGTTATTCTAGAGAACCATCAGATGT TTCCAGGGTGCCCCAAGGACCTGAAATGACCCTGTGCCTTATTTGAACTAACCAATCAGT

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TCGCTTCTCGCTTCTGTTCGCGCGCTTCTGCTCCCCGAGCTCAATAAAAGAGCCCACAAC CCCTCACTCGGGGCGCCAGTCCTCCGATTGACTGAGTCGCCCGGGTACCCGTGTATCCAA TAAACCCTCTTGCAGTTGCATCCGACTTGTGGTCTCGCTGTTCCTTGGGAGGGTCTCCTC TGAGTGATTGACTACCCGTCAGCGGGGGTCTTTCATTTGGGGGCTCGTCCGGGATCGGGA TCGGTGATGACGGTGAAAACCTCTGACACATGCAGCTCCCGGAGACGGTCACAGCTTGTC TGTAAGCGGATGCCGGGAGCAGACAAGCCCGTCAGGGCGCGTCAGCGGGTGTTGGCGGGT GTCGGGGCGCAGCCATGACCCAGTCACGTAGCGATAGCGGAGTGTATACTGGCTTAACTA TGCGGCATCAGAGCAGATTGTACTGAGAGTGCACCATATGCGGTGTGAAATACCGCACAG ATGCGTAAGGAGAAAATACCGCATCAGGCGCTCTTCCGCTTCCTCGCTCACTGACTCGCT 10 ATCCACAGAATCAGGGGATAACGCAGGAAAGAACATGTGAGCAAAAGGCCAGCAAAAGGC CAGGAACCGTAAAAAGGCCGCGTTGCTGGCGTTTTTCCATAGGCTCCGCCCCCTGACGA GCATCACAAAAATCGACGCTCAAGTCAGAGGTGGCGAAACCCGACAGGACTATAAAGATA CCAGGCGTTTCCCCCTGGAAGCTCCCTCGTGCGCTCTCCTGTTCCGACCCTGCCGCTTAC 15 CGGATACCTGTCCGCCTTTCTCCCTTCGGGAAGCGTGGCGCTTTCTCATAGCTCACGCTG TAGGTATCTCAGTTCGGTGTAGGTCGTTCGCTCCAAGCTGGGCTGTGTGCACGAACCCCC CGTTCAGCCCGACCGCTGCGCCTTATCCGGTAACTATCGTCTTGAGTCCAACCCGGTAAG ACACGACTTATCGCCACTGGCAGCCACTGGTAACAGGATTAGCAGAGCGAGGTATGT AGGCGGTGCTACAGAGTTCTTGAAGTGGTGGCCTAACTACGGCTACACTAGAAGGACAGT 20 ATTTGGTATCTGCGCTCTGCTGAAGCCAGTTACCTTCGGAAAAAGAGTTGGTAGCTCTTG GCGCAGAAAAAAAGGATCTCAAGAAGATCCTTTGATCTTTCTACGGGGTCTGACGCTCA GTGGAACGAAAACTCACGTTAAGGGATTTTGGTCATGAGATTATCAAAAAGGATCTTCAC 25 TTGGTCTGACAGTTACCAATGCTTAATCAGTGAGGCACCTATCTCAGCGATCTGTCTATT TCGTTCATCCATAGTTGCCTGACTCCCCGTCGTGTAGATAACTACGATACGGGAGGGCTT ACCATCTGGCCCCAGTGCTGCAATGATACCGCGAGACCCACGCTCACCGGCTCCAGATTT ATCAGCAATAAACCAGCCAGCCGGAAGGGCCCGAGCGCAGAAGTGGTCCTGCAACTTTATC 30 TAGTTTGCGCAACGTTGTTGCCATTGCTGCAGGCATCGTGGTGTCACGCTCGTCGTTTGG TATGGCTTCATTCAGCTCCGGTTCCCAACGATCAAGGCGAGTTACATGATCCCCCATGTT AGTGTTATCACTCATGGTTATGGCAGCACTGCATAATTCTCTTACTGTCATGCCATCCGT AAGATGCTTTTCTGTGACTGGTGAGTACTCAACCAAGTCATTCTGAGAATAGTGTATGCG GCGACCGAGTTGCTCTTGCCCGGCGTCAACACGGGATAATACCGCGCCACATAGCAGAAC TTTAAAAGTGCTCATCATTGGAAAACGTTCTTCGGGGCGAAAACTCTCAAGGATCTTACC GCTGTTGAGATCCAGTTCGATGTAACCCACTCGTGCACCCAACTGATCTTCAGCATCTTT TACTTTCACCAGCGTTTCTGGGTGAGCAAAAACAGGAAGGCAAAATGCCGCAAAAAAGGG AATAAGGGCGACACGGAAATGTTGAATACTCATACTCTTTCCTTTTTCAATATTATTGAAG 40 CATTTATCAGGGTTATTGTCTCATGAGCGGATACATATTTGAATGTATTTAGAAAAATAA ACAAATAGGGGTTCCGCGCACATTTCCCCGAAAAGTGCCACCTGACGTCTAAGAAACCAT TATTATCATGACATTAACCTATAAAAATAGGCGTATCACGAGGCCCTTTCGTCTTCAAGA ATTCATACCAGATCACCGAAAACTGTCCTCCAAATGTGTCCCCCTCACACTCCCAAATTC GCGGGCTTCTGCCTCTTAGACCACTCTACCCTATTCCCCACACTCACCGGAGCCAAAGCC 45 GCGGCCCTTCCGTTTCTTTGCTTTTGAAAGACCCCACCCGTAGGTGGCAA

LTR plasmid (SEQ ID No 59)

GCTAGCTTAAGTAACGCCATTTTGCAAGGCATGGAAAAATACATAACTGAGAATAGAGAA

GTTCAGATCAAGGTCAGGAACAGATGGAACAGCTGAATATGGGCCAAACAGGATATCTGT

GGTAAGCAGTTCCTGCCCCGGCTCAGGGCCAAGAACAGATGGAACAGCTGAATATGGGCC

AAACAGGATATCTGTGGTAAGCAGTTCCTGCCCCGGCTCAGGGCCAAGAACAGATGGTCC

CCAGATGCGGTCCAGCCCTCAGCAGTTTCTAGAGAACCATCAGATGTTTCCAGGGTGCCC

CAAGGACCTGAAATGACCCTGTGCCTTATTTGAACTAACCAATCAGTTCGCTTCTCGGTG

CGCCAGTCCTCCGATTGACTCAGCCCCGGGTACCCGTGTATCCAATAAACCCTCTTGC

AGTTGCATCCGACTTGTGCTCCCCGGGTACCCGTGTATCCAATAAACCCTCTTGC

AGCCGTCAGCGGGGGTCTTTCATTTGGGGGCTCCCGGGATCGGGAGACCCCTGCCCAG

GGACCACCGACCCACCACCGGGAGGTAAGCTGCCTCCGCGCGTTTCCGTGATGACGG

40

TGAAAACCTCTGACACATGCAGCTCCCGGAGACGGTCACAGCTTGTCTGTAAGCGGATGC CGGGAGCAGACAAGCCCGTCAGGGCGCGTCAGCGGGTGTTGGCGGGTGTCGGGGCGCAGC CATGACCCAGTCACGTAGCGATAGCGGAGTGTATACTGGCTTAACTATGCGGCATCAGAG CAGATTGTACTGAGAGTGCACCATATGCGGTGTGAAATACCGCACAGATGCGTAAGGAGA 5 CGGCTGCGGCGAGCGGTATCAGCTCACTCAAAGGCGGTAATACGGTTATCCACAGAATCA GGGGATAACGCAGGAAAGAACATGTGAGCAAAAGGCCAGCAAAAGGCCAGGAACCGTAAA AAGGCCGCGTTGCTGGCGTTTTTCCATAGGCTCCGCCCCCTGACGAGCATCACAAAAAT CGACGCTCAAGTCAGAGGTGGCGAAACCCGACAGGACTATAAAGATACCAGGCGTTTCCC CCTGGAAGCTCCCTCGTGCGCTCTCCTGTTCCGACCCTGCCGCTTACCGGATACCTGTCC 10 GCCTTTCTCCCTTCGGGAAGCGTGGCGCTTTCTCATAGCTCACGCTGTAGGTATCTCAGT TCGGTGTAGGTCGTTCGCTCCAAGCTGGGCTGTGTGCACGAACCCCCCGTTCAGCCCGAC CGCTGCGCCTTATCCGGTAACTATCGTCTTGAGTCCAACCCGGTAAGACACGACTTATCG CCACTGGCAGCAGCCACTGGTAACAGGATTAGCAGAGCGAGGTATGTAGGCGGTGCTACA GAGTTCTTGAAGTGGTGGCCTAACTACGGCTACACTAGAAGGACAGTATTTGGTATCTGC 15 GCTCTGCTGAAGCCAGTTACCTTCGGAAAAAGAGTTGGTAGCTCTTGATCCGGCAAACAA ACCACCGCTGGTAGCGGTGGTTTTTTTTTTTTCAAGCAGCAGATTACGCGCAGAAAAAAA GGATCTCAAGAAGATCCTTTGATCTTTTCTACGGGGTCTGACGCTCAGTGGAACGAAAAC TCACGTTAAGGGATTTTGGTCATGAGATTATCAAAAAGGATCTTCACCTAGATCCTTTTA AATTAAAAATGAAGTTTTAAATCAATCTAAAGTATATATGAGTAAACTTGGTCTGACAGT 20 TACCAATGCTTAATCAGTGAGGCACCTATCTCAGCGATCTGTCTATTTCGTTCATCCATA GTTGCCTGACTCCCCGTCGTGTAGATAACTACGATACGGGAGGGCTTACCATCTGGCCCC AGTGCTGCAATGATACCGCGAGACCCACGCTCACCGGCTCCAGATTTATCAGCAATAAAC TCTATTAATTGTTGCCGGGAAGCTAGAGTAAGTTCGCCAGTTAATAGTTTGCGCAAC 25 GTTGTTGCCATTGCTGCAGGCATCGTGGTGTCACGCTCGTCGTTTGGTATGGCTTCATTC AGCTCCGGTTCCCAACGATCAAGGCGAGTTACATGATCCCCCATGTTGTGCAAAAAAGCG ATGGTTATGGCAGCACTGCATAATTCTCTTACTGTCATGCCATCCGTAAGATGCTTTTCT GTGACTGGTGAGTACTCAACCAAGTCATTCTGAGAATAGTGTATGCGGCGACCGAGTTGC 30 TCTTGCCCGGCGTCAACACGGGATAATACCGCGCCACATAGCAGAACTTTAAAAGTGCTC ATCATTGGAAAACGTTCTTCGGGGCGAAAACTCTCAAGGATCTTACCGCTGTTGAGATCC AGTTCGATGTAACCCACTCGTGCACCCAACTGATCTTCAGCATCTTTTACTTTCACCAGC GTTTCTGGGTGAGCAAAAACAGGAAGGCAAAAATGCCGCAAAAAAAGGGAATAAGGGCGACA CGGAAATGTTGAATACTCATACTCTTTCTTTTCAATATTATTGAAGCATTTATCAGGGT CCGCGCACATTTCCCCGAAAAGTGCCACCTGACGTCTAAGAAACCATTATTATCATGACA TTAACCTATAAAAATAGGCGTATCACGAGGCCCTTTCGTCTTCAAGAATTCATACCAGAT CACCGAAAACTGTCCTCCAAATGTGTCCCCCTCACACTCCCAAATTCGCGGGCTTCTGCC

TCTTAGACCACTCTACCCTATTCCCCACACTCACCGGAGCCAAAGCCGCGGCCCTTCCGT

TTCTTTGCTTTTGAAAGACCCCACCCGTAGGTGGCAA